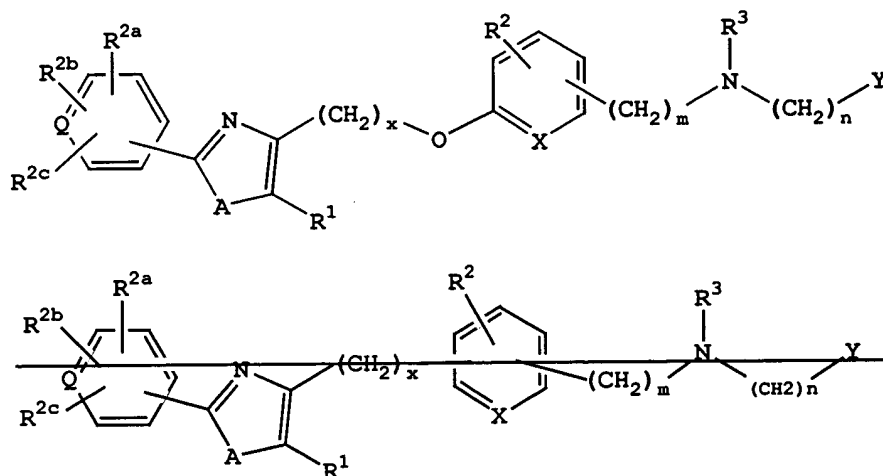


## CLAIM AMENDMENTS

**Claim 1 (cancelled)**

**Claim 2 (currently amended)**

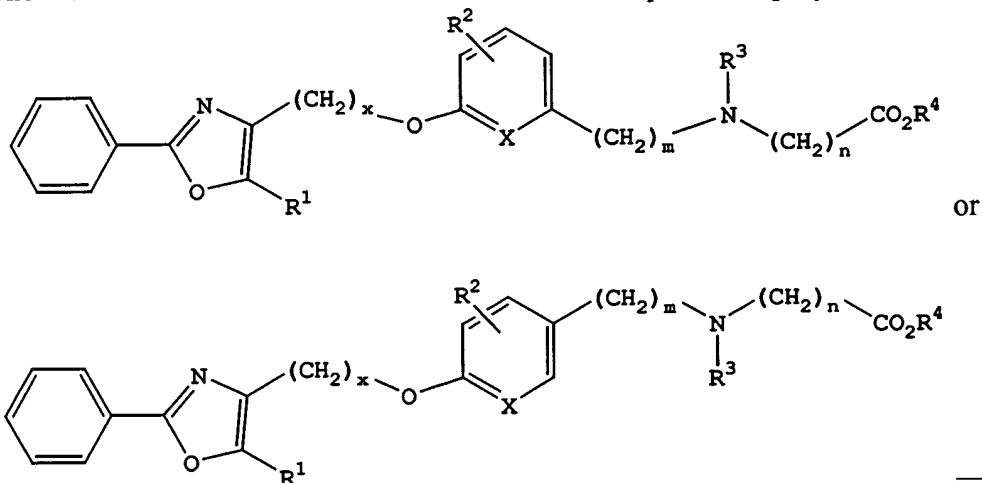
--2. The method as defined in Claim 34 wherein the compound employed has the structure



**Claim 3 (cancelled)**

**Claim 4 (previously amended)**

4. The method as defined in Claim 34 wherein the compound employed has the structure



**Claim 5 (previously amended)**

--5. The compound as defined in Claim 34 where in the compound employed  $(CH_2)_x$  is alkylene, alkenylene, allenyl, or alkynylene.--

**Claims 6 to 9 (cancelled)**

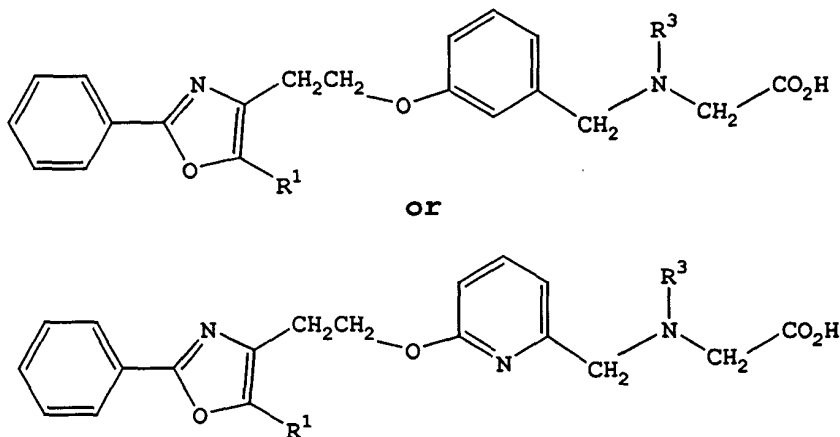
**Claim 10 (currently amended)**

--10. The method as defined in Claim 34 where in the compound employed  $(CH_2)_x$  is  $CH_2$ ,  $(CH_2)_2$ ,  $(CH_2)_3$ , or  $\begin{array}{c} CH_3 \\ | \\ -C- \\ | \\ CH_3 \end{array}$ ,  $(CH_2)_m$  is  $CH_2$ , or  $\begin{array}{c} R_a \\ | \\ -CH- \end{array}$  (where  $R_a$  is alkyl or alkenyl),  $(CH_2)_n$  is  $CH_2$ ,  $R^1$  is lower alkyl,  $R^2$  is H,  $R^{2a}$  is H,  $R^4$  is H, and  $R^3$  is arylalkyloxycarbonyl, aryloxycarbonyl, haloaryl-oxycarbonyl, alkoxyaryloxycarbonyl, alkylaryloxycarbonyl, ~~aryloxyaryloxycarbonyl~~, heteroaryloxyarylalkyl, heteroaryloxycarbonyl, arylalkenyloxycarbonyl, ~~cycloalkylaryloxycarbonyl~~, ~~cycloalkyloxyaryloxycarbonyl~~, ~~alkyloxyaryloxycarbonyl~~, arylalkylsulfonyl, arylalkenylsulfonyl, arylthiocarbonyl, ~~cycloheteroalkylalkyloxycarbonyl~~, ~~cycloheteroalkyloxycarbonyl~~, or polyhaloalkylaryloxycarbonyl, which may be optionally substituted. -

**Claims 11 to 13 (cancelled)**

**Claim 14 (previously amended)**

--14. The method as defined in Claim 34 where the compound employed has the structure

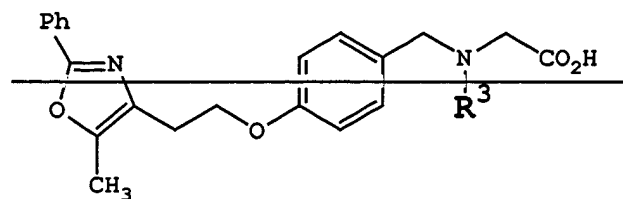
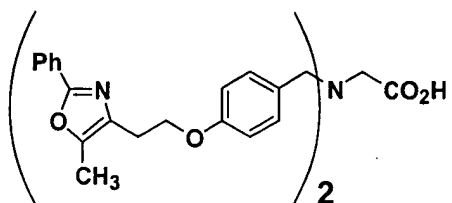


where  $(CH_2)_n$  is  $CH_2$  or  $\begin{array}{c} CH_3 \\ | \\ -CH- \end{array}$ .

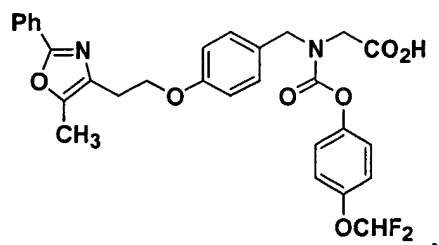
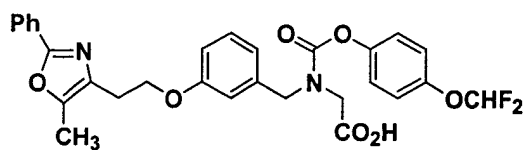
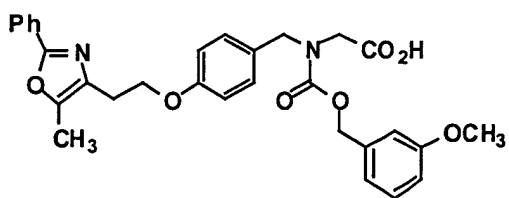
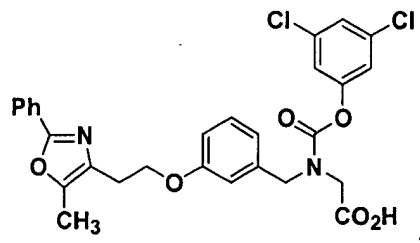
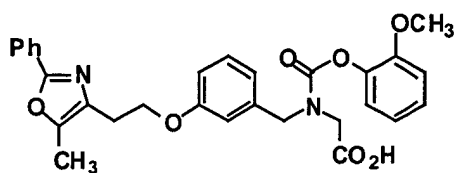
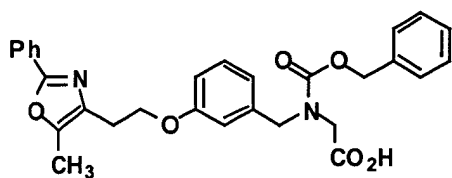
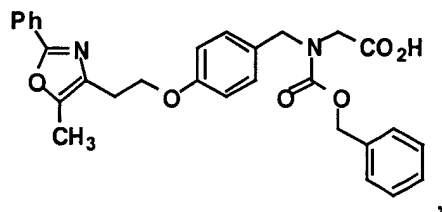
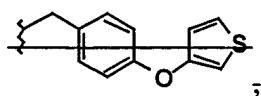
**Claim 15 (cancelled)**

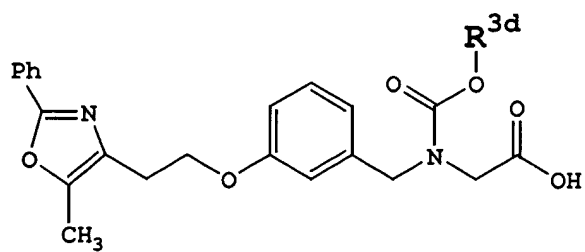
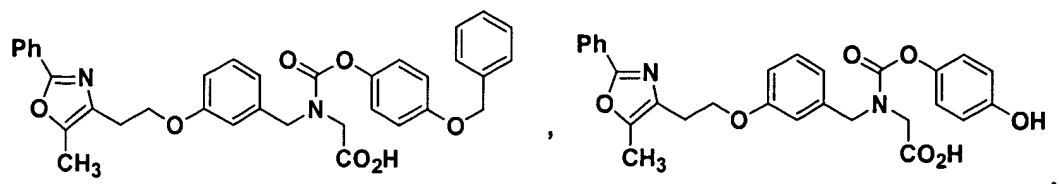
**Claim 16 (currently amended)**

--16. The method as defined in Claim 34 wherein the compound employed has the structure

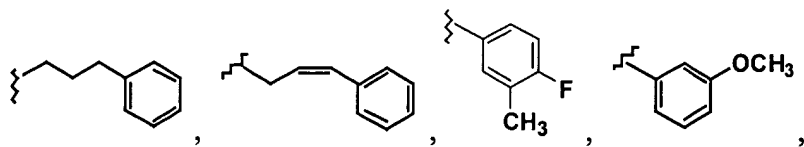
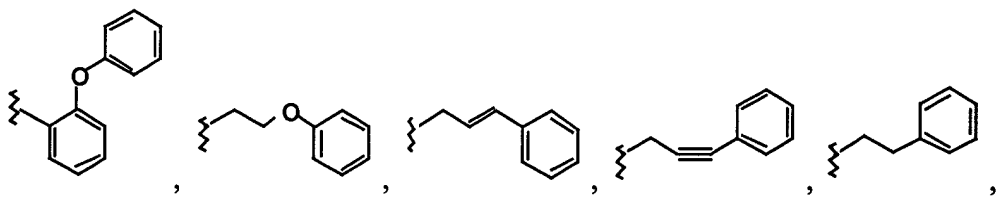
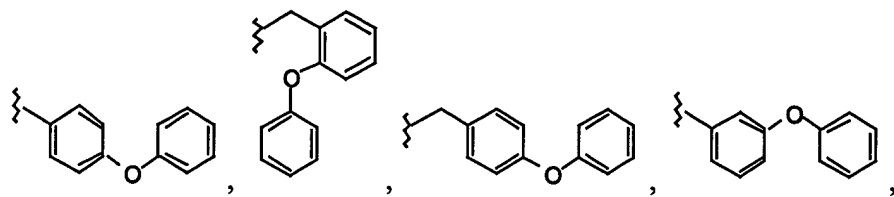
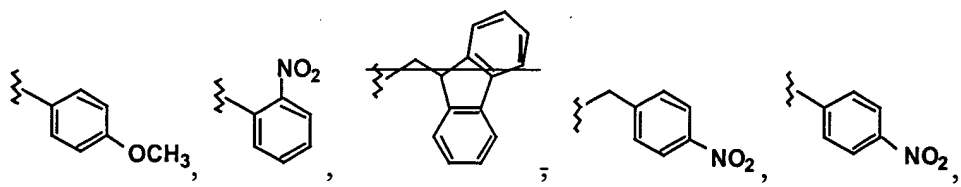
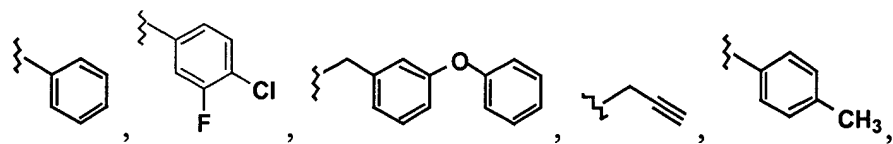


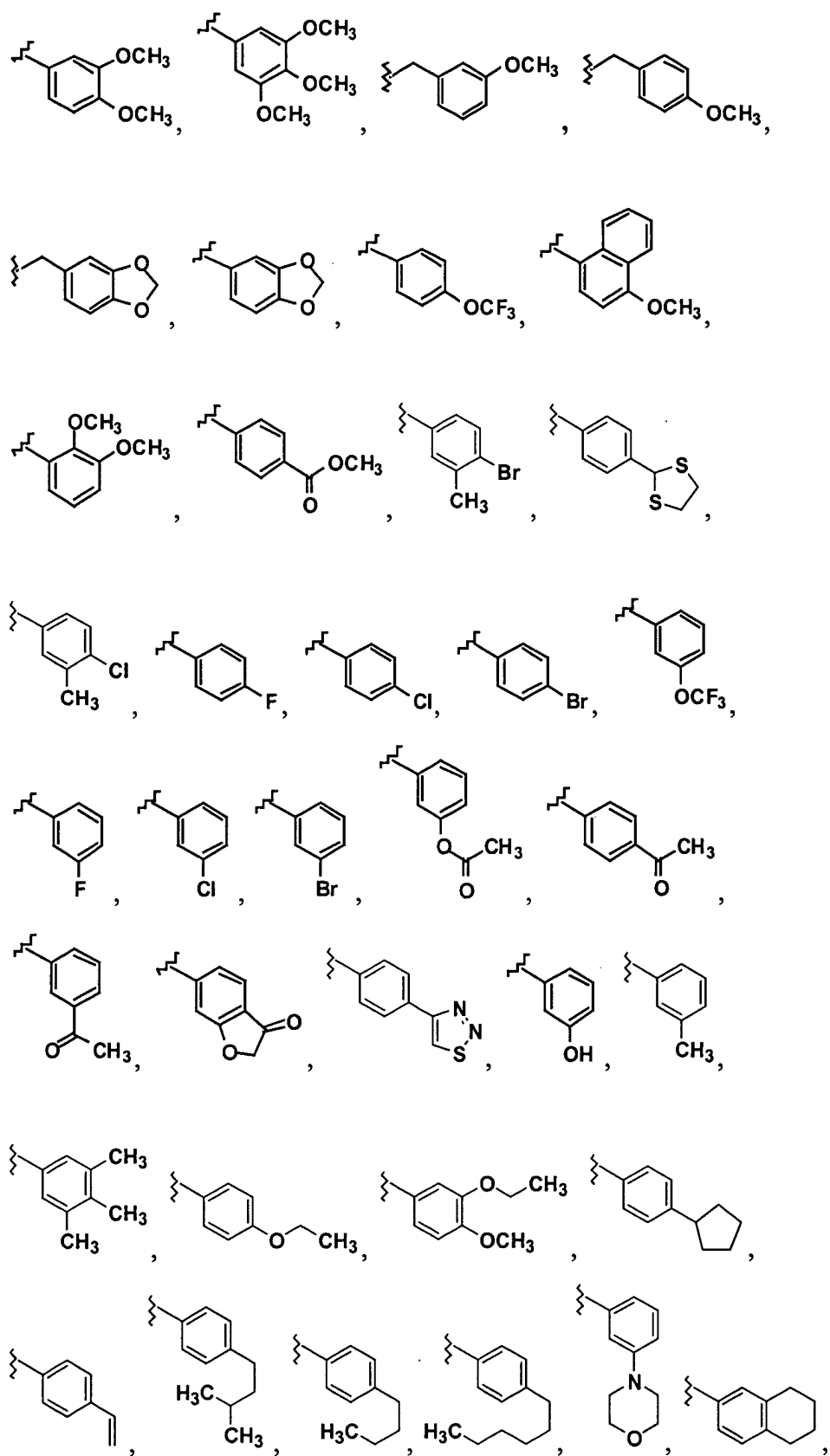
, where  $\text{R}^3 =$

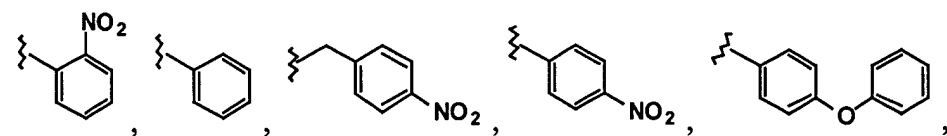
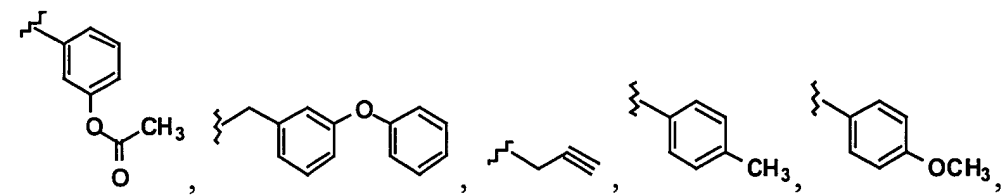
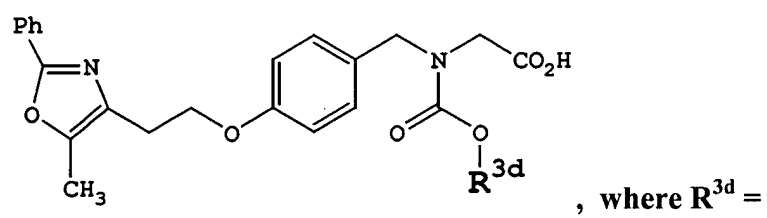
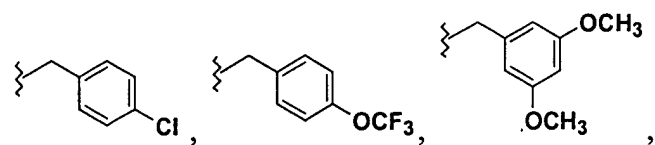
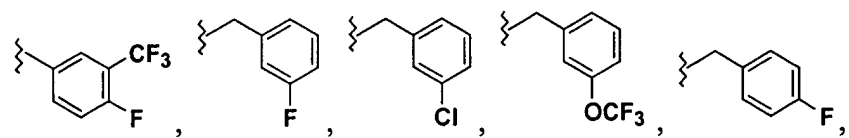
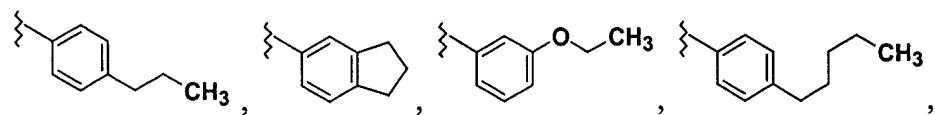
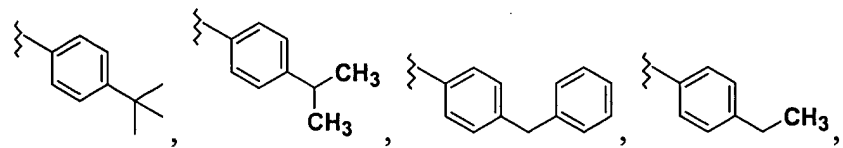
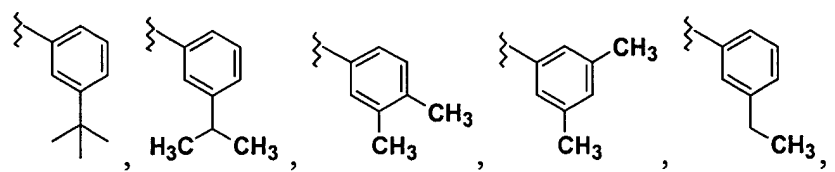


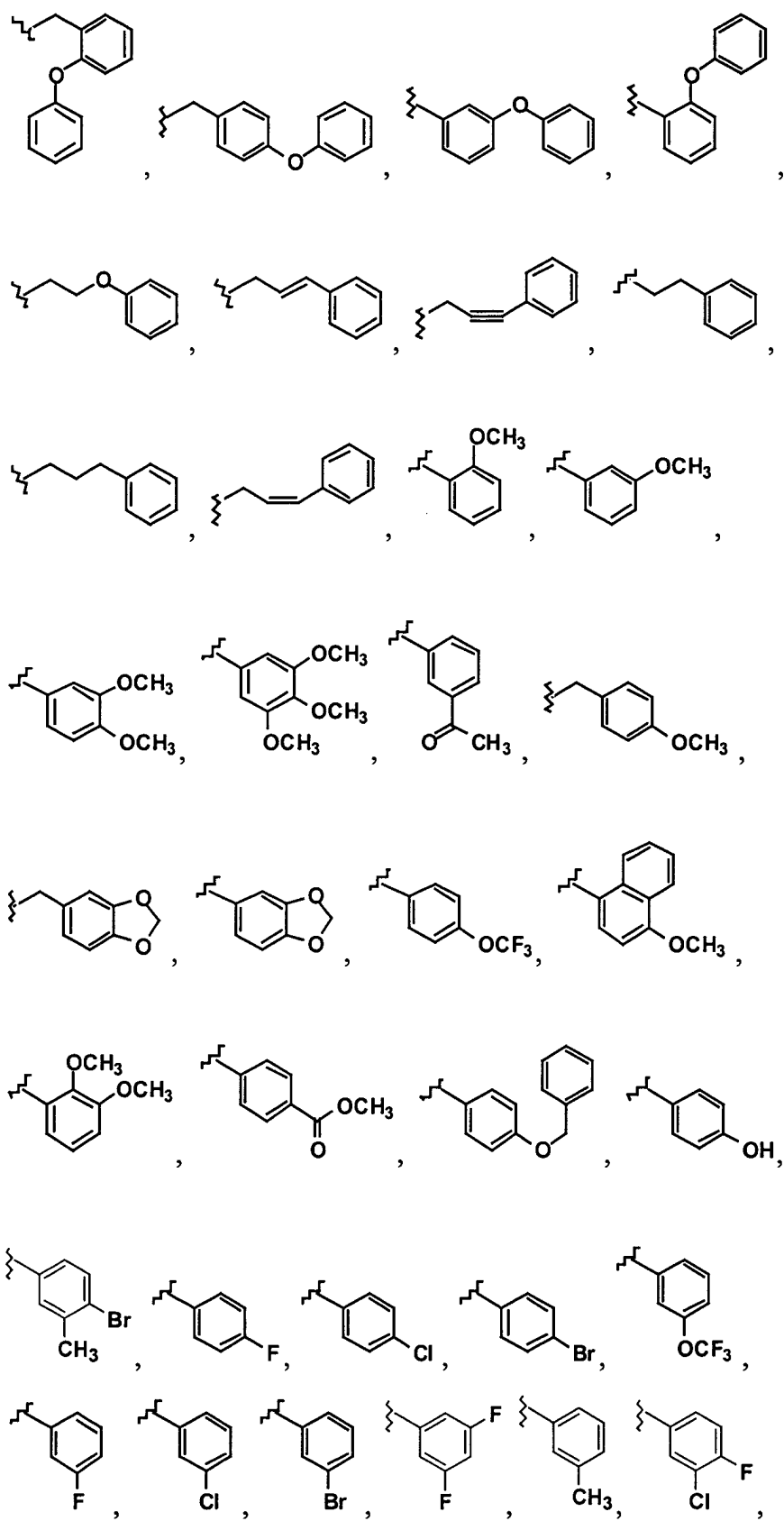


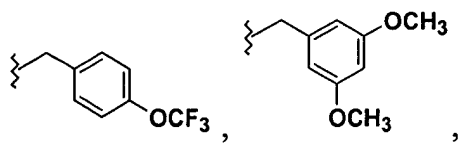
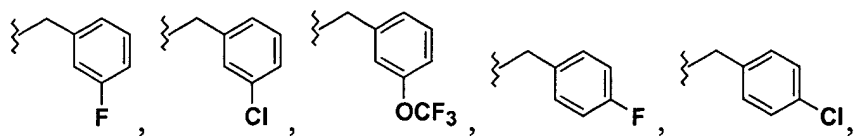
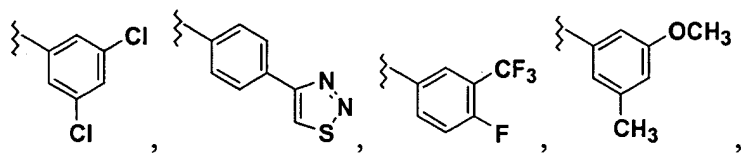
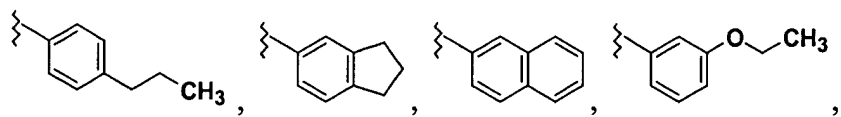
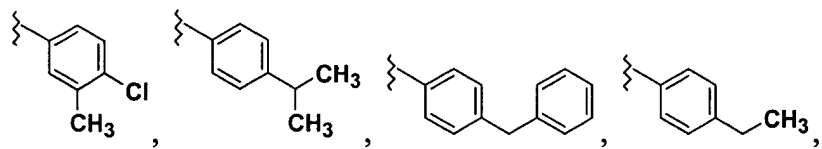
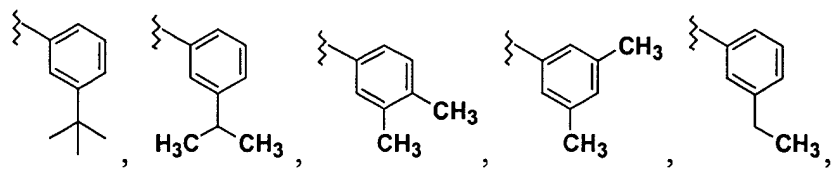
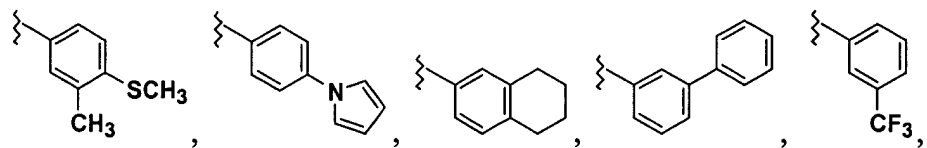
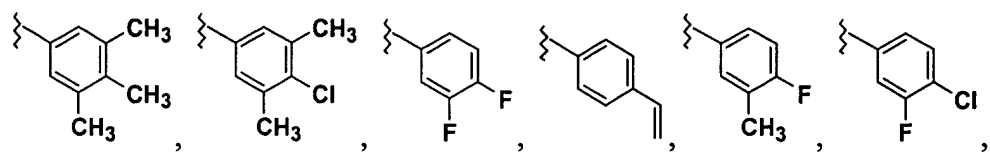
, where R<sup>3d</sup> =



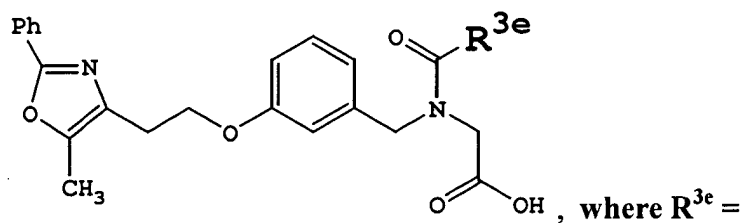
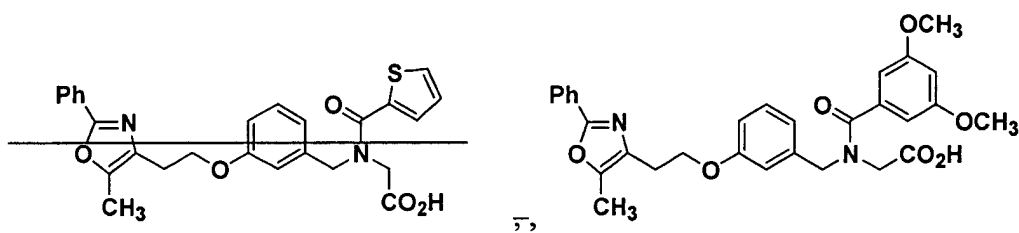
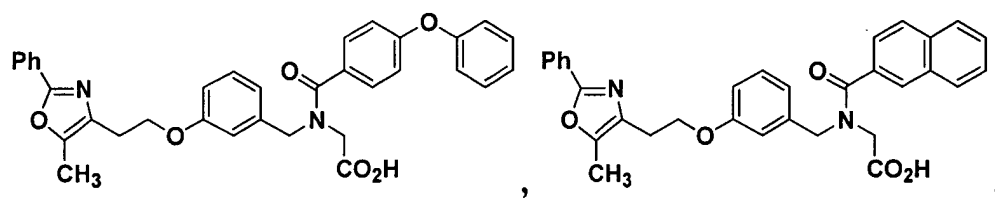
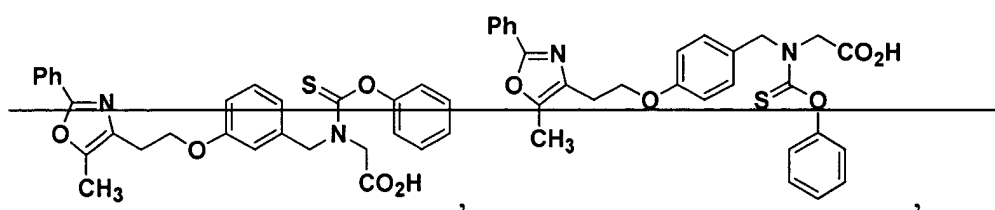
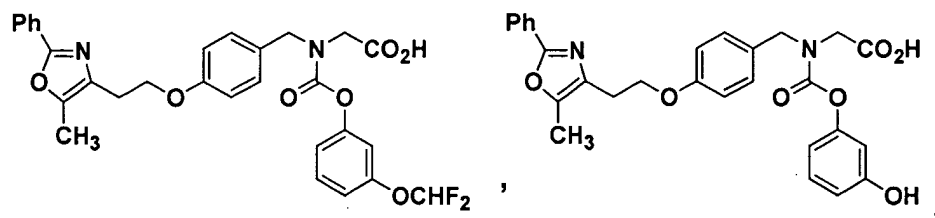
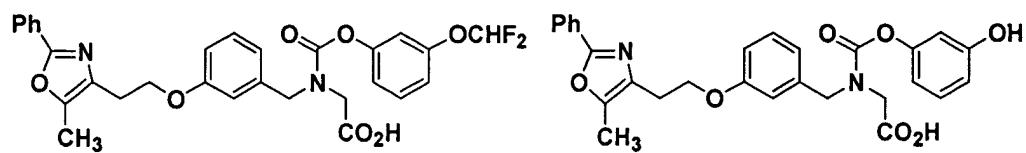


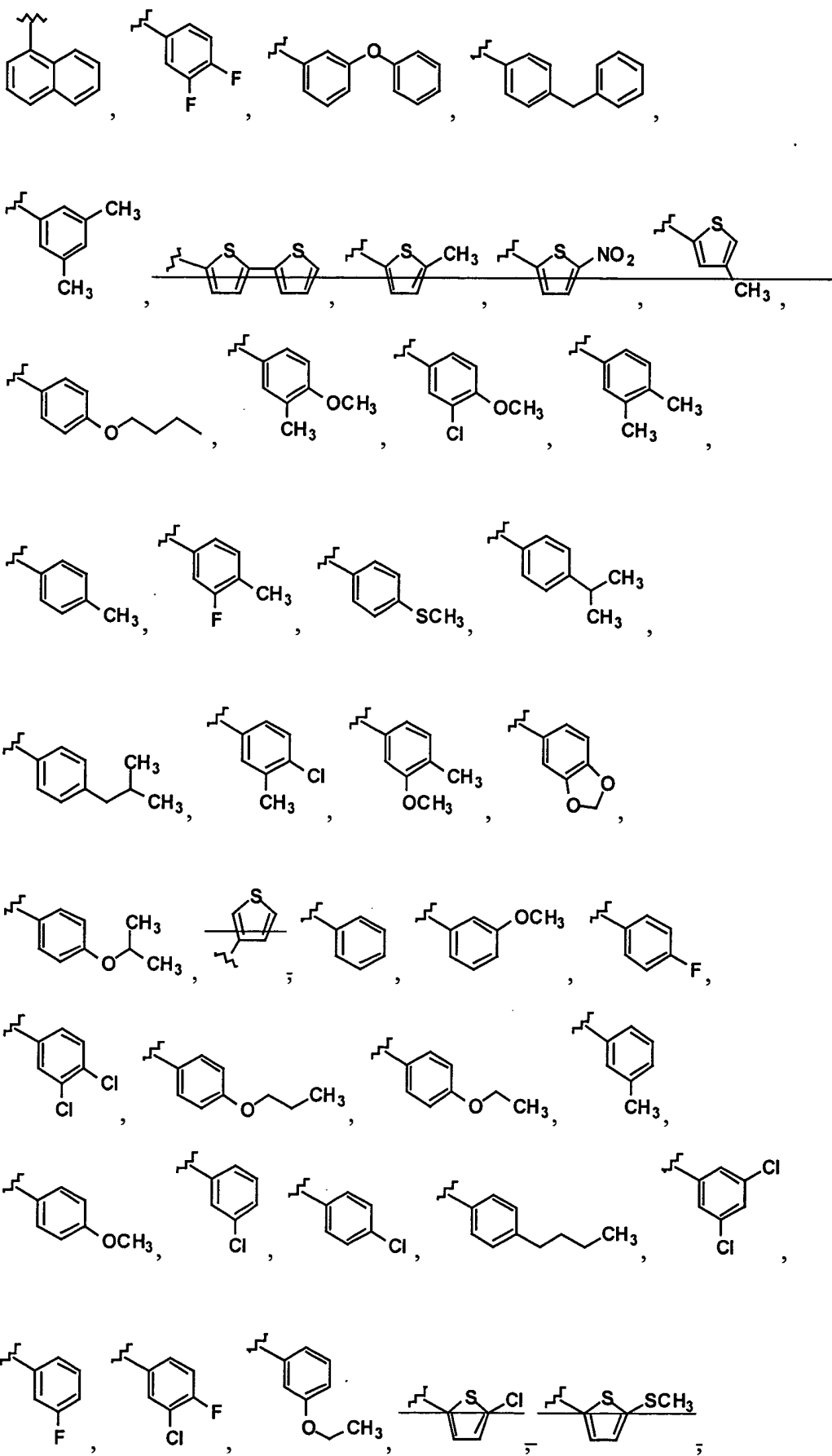


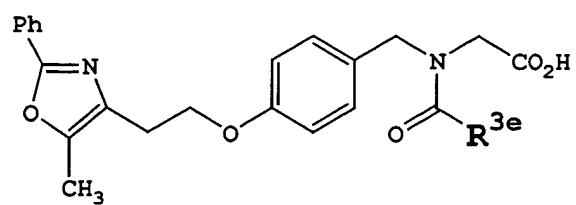
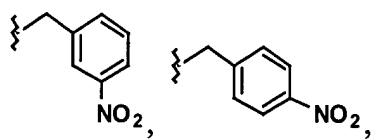
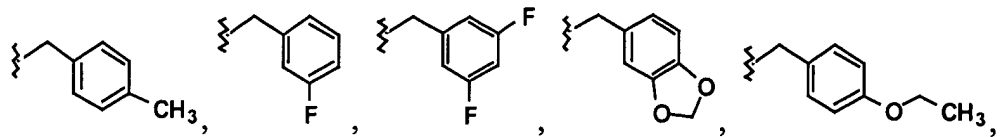




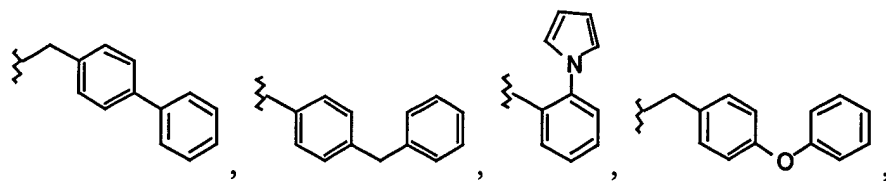
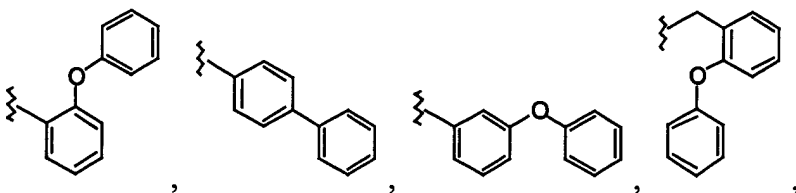
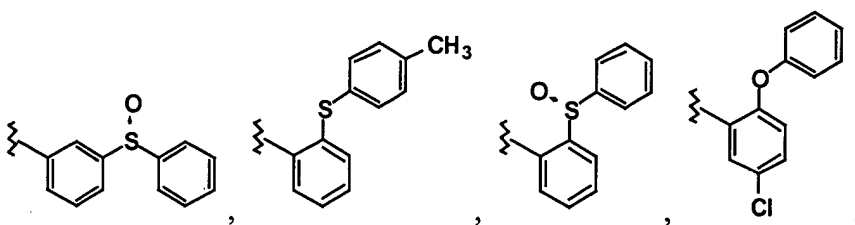
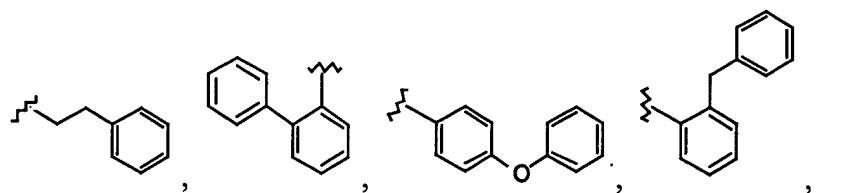


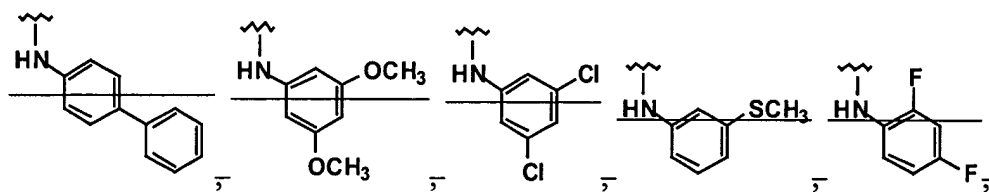


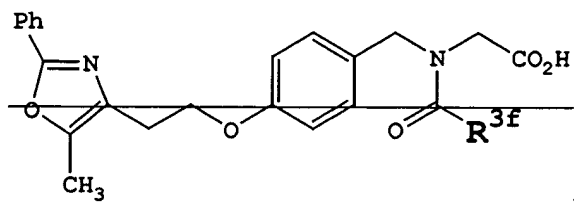
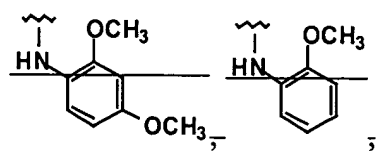




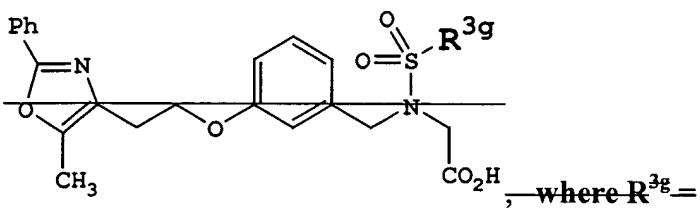
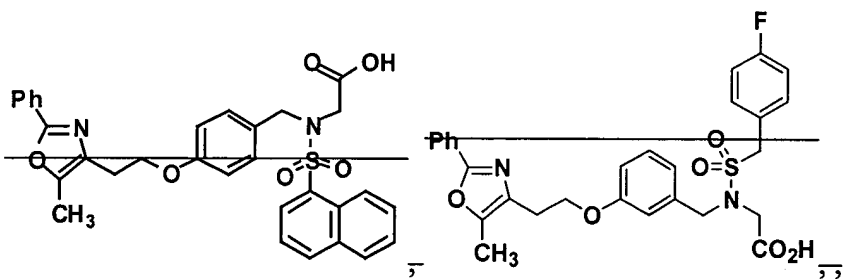
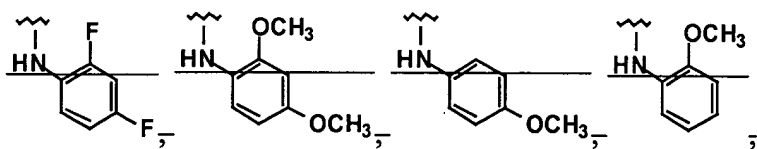
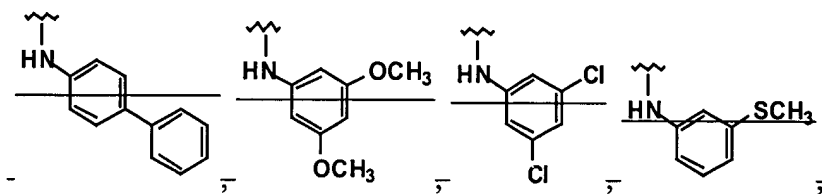
, where  $R^{3e} =$



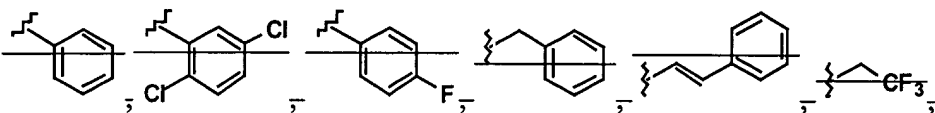




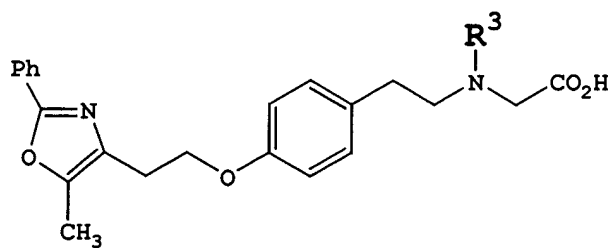
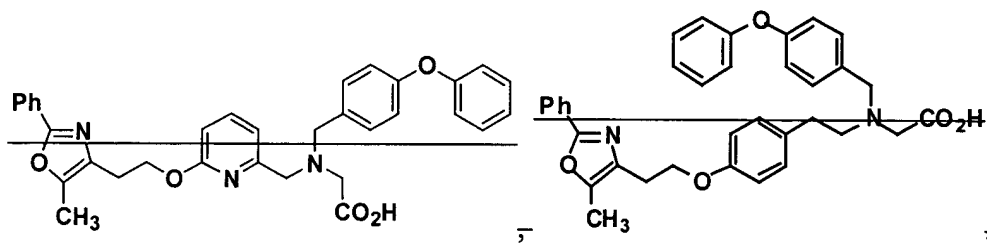
, where  $\text{R}^{3f} =$



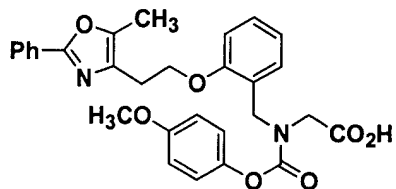
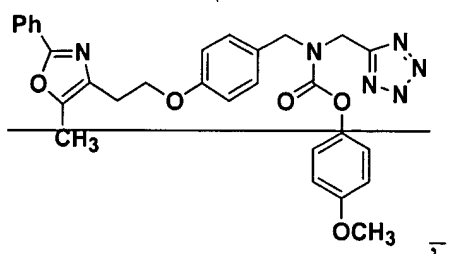
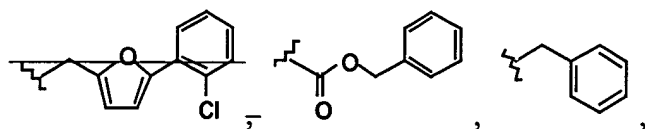
, where  $\text{R}^{3g} =$

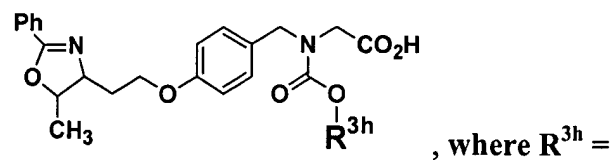
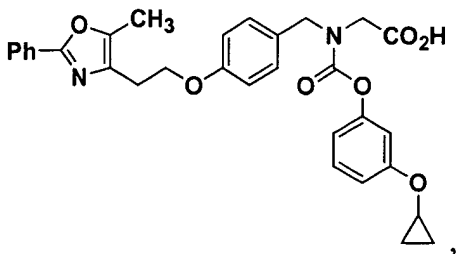
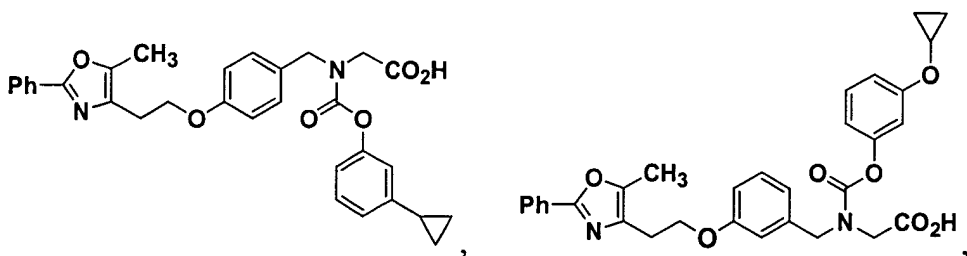
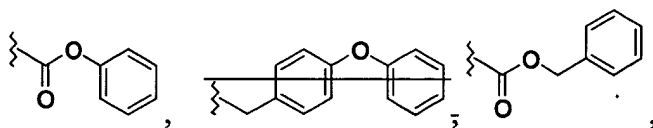
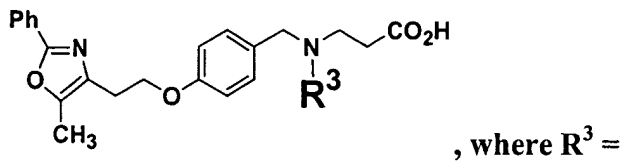
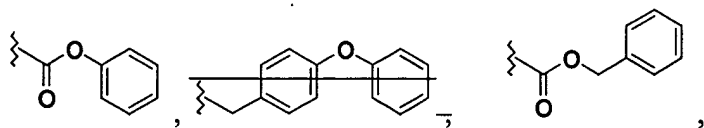
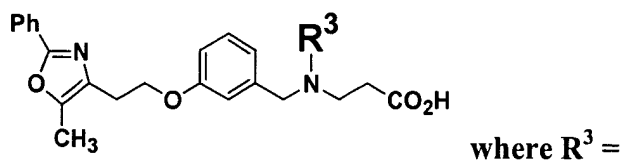
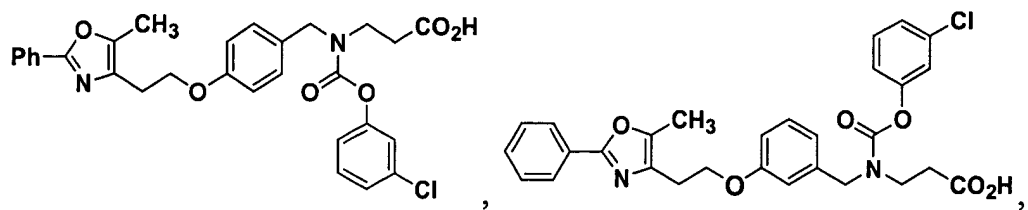




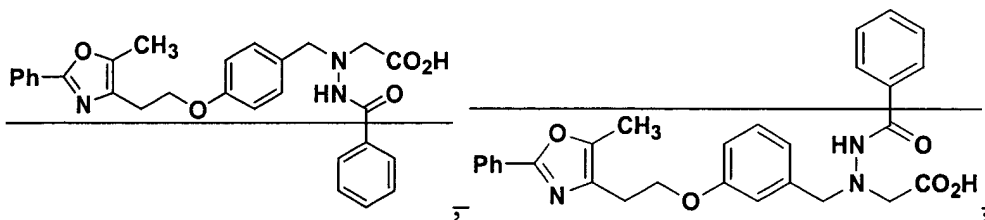
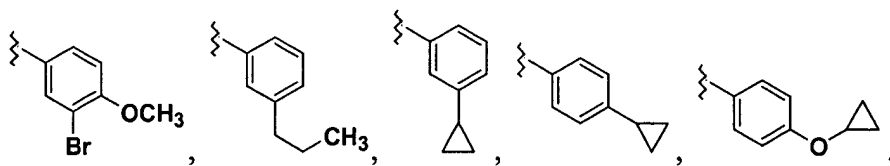
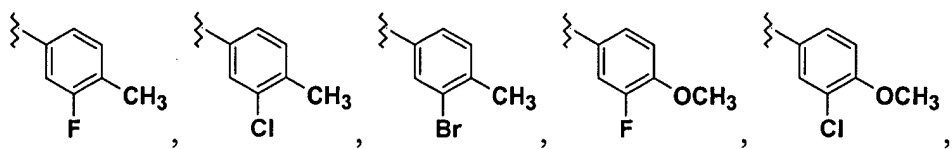
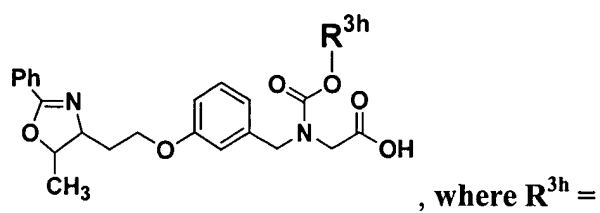
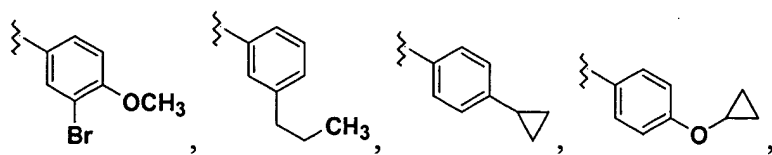
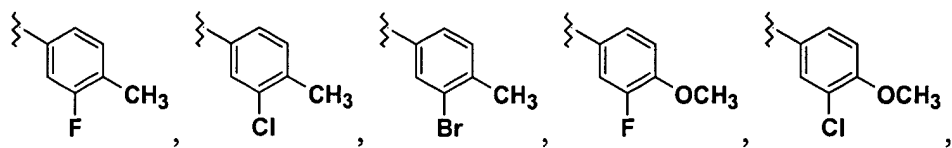


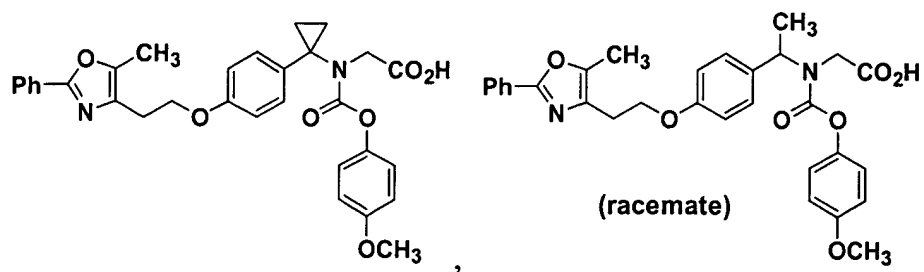
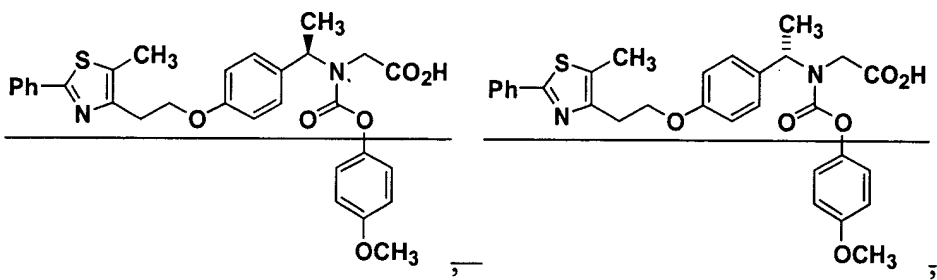
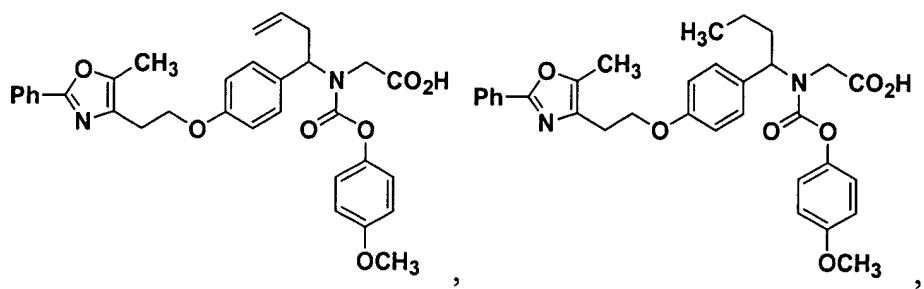
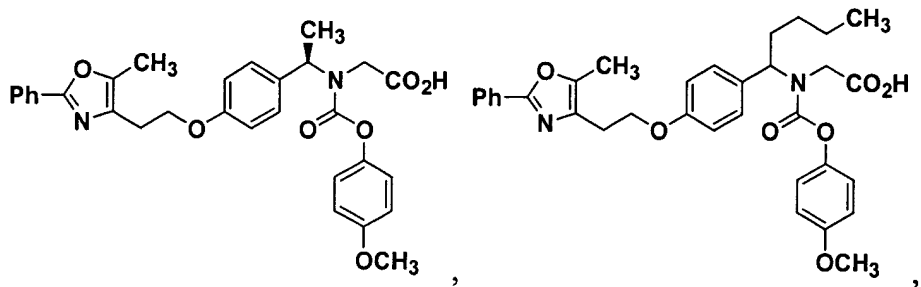
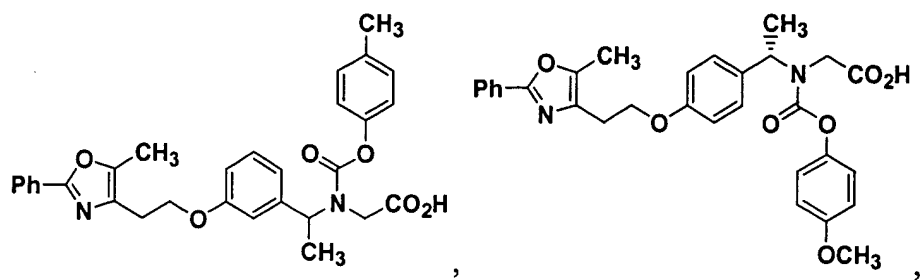
, where  $\mathbf{R}^3 =$

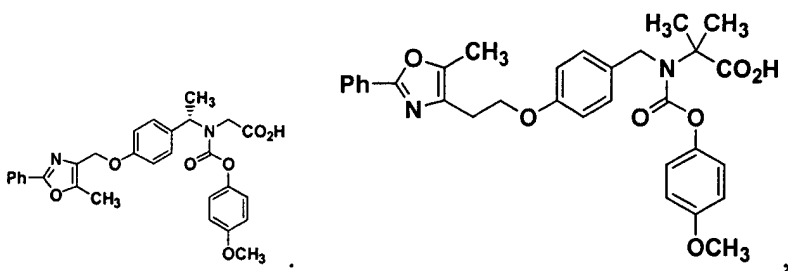
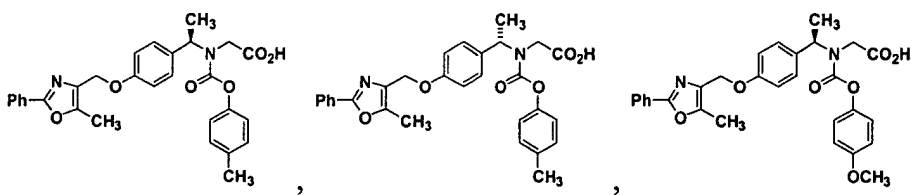
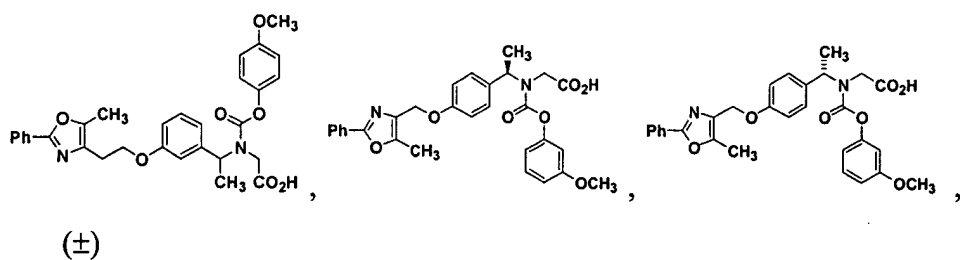
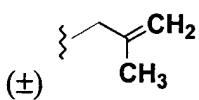
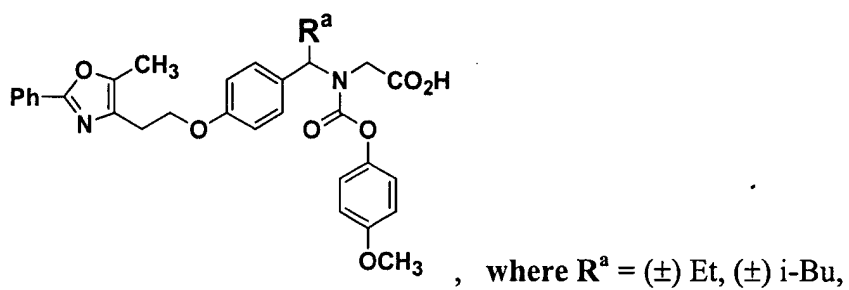
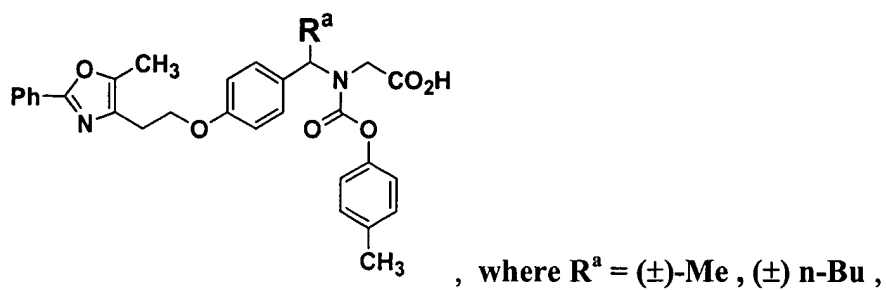


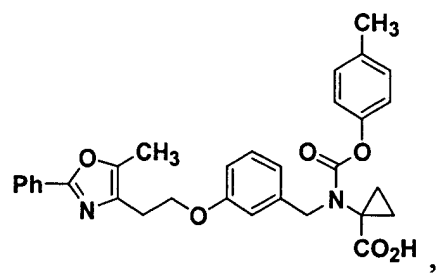
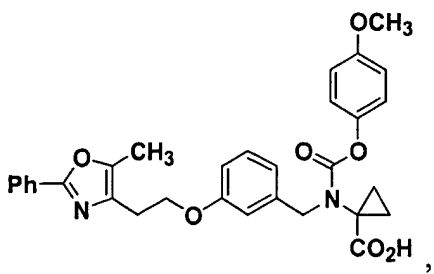
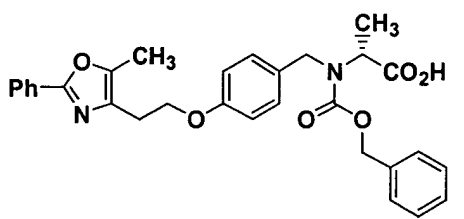
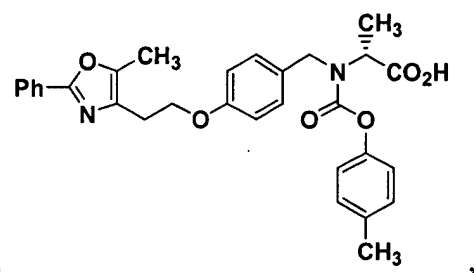
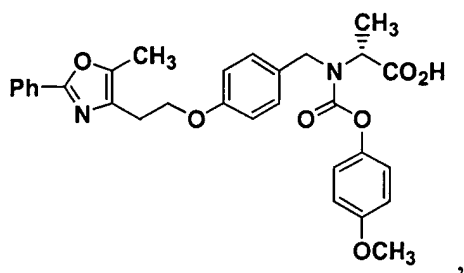
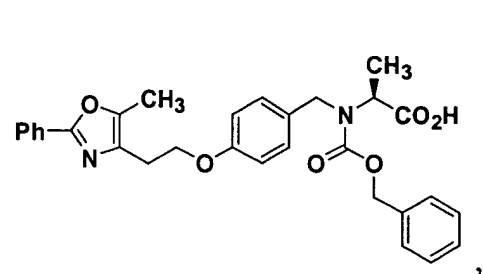
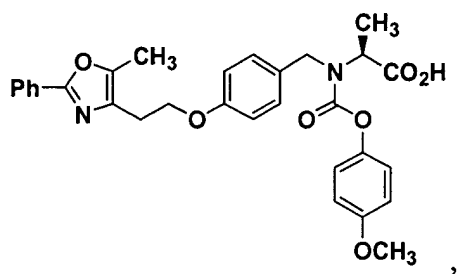
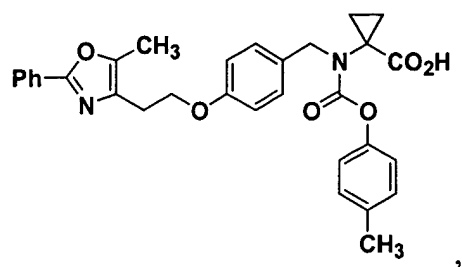
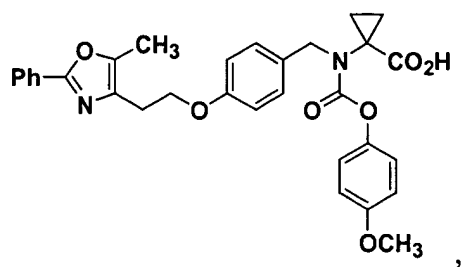


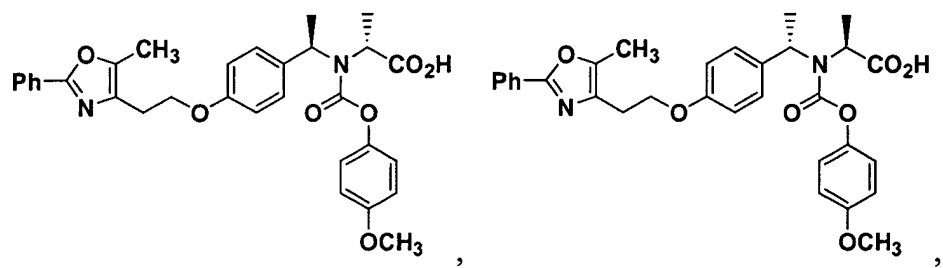
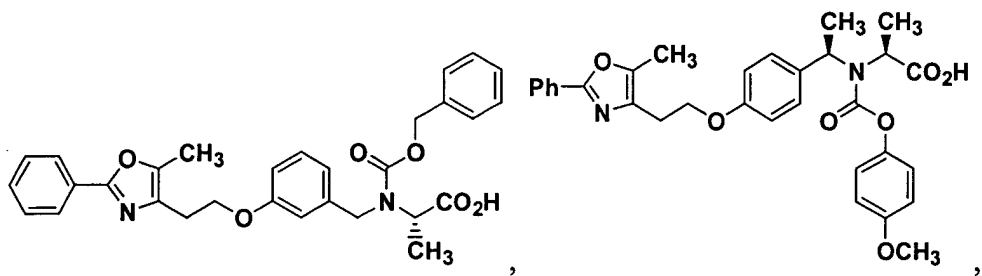
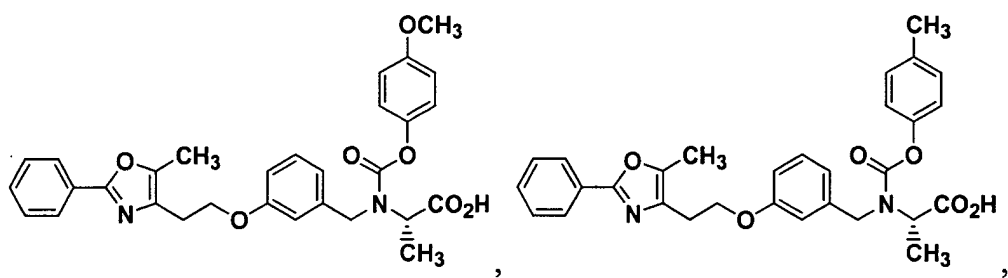
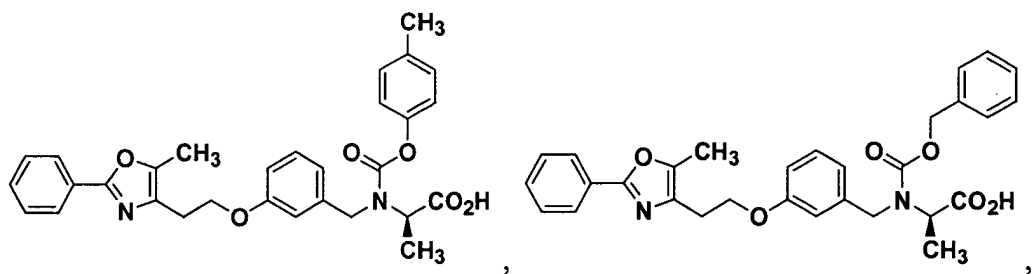
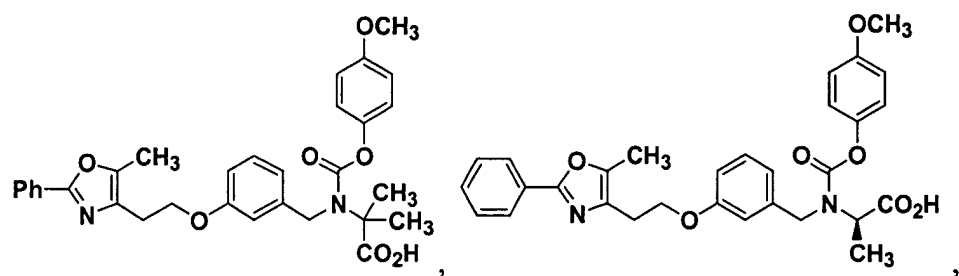


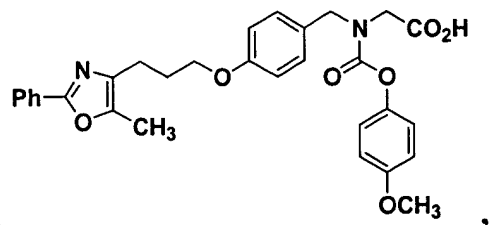
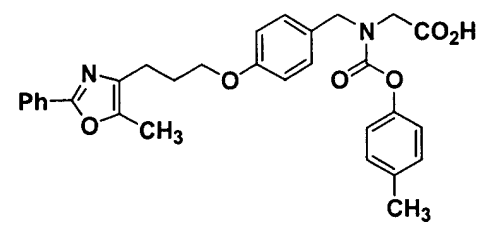
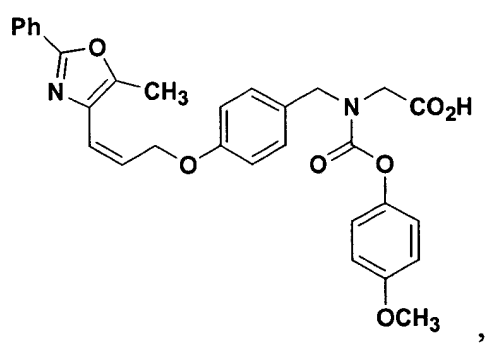
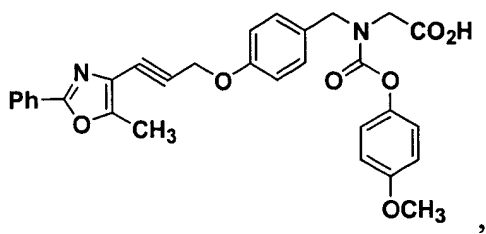
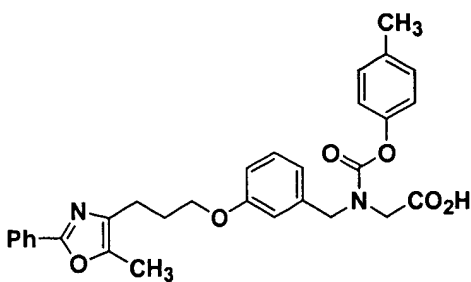


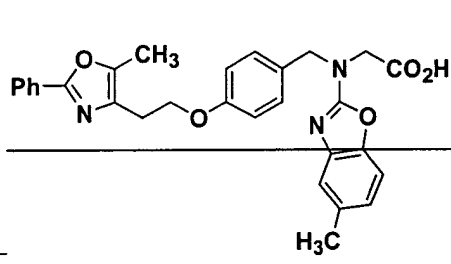
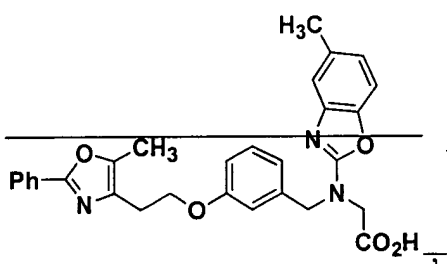
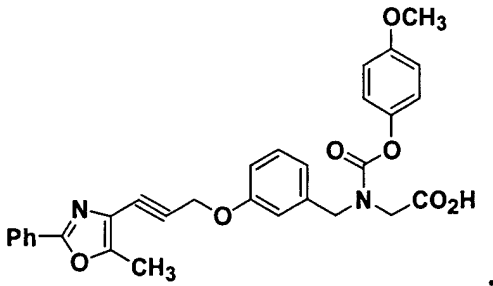
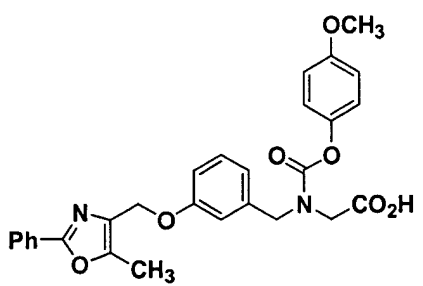
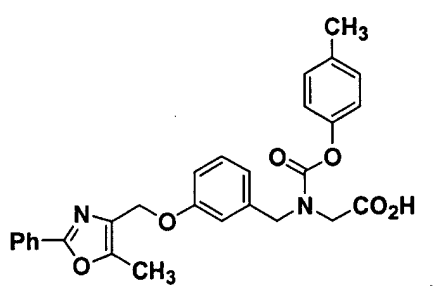
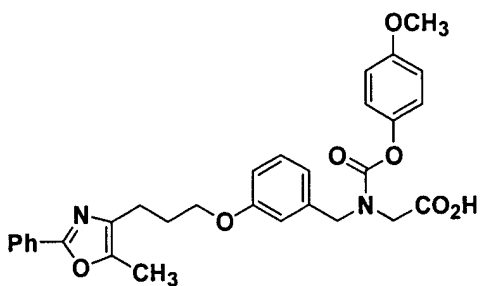
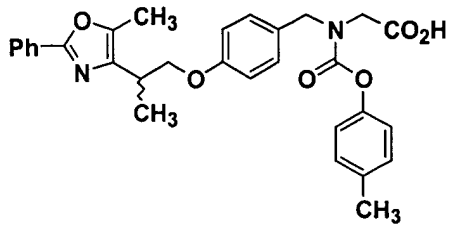
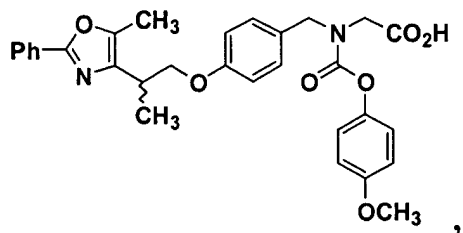
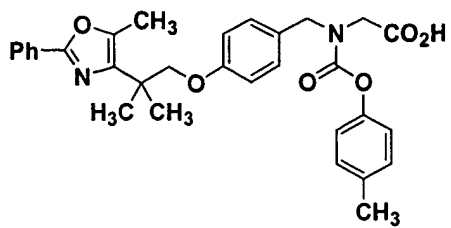
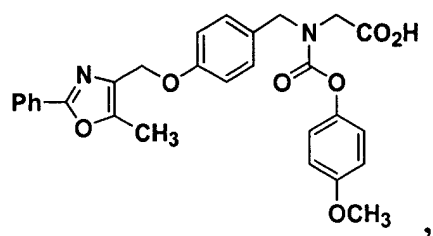


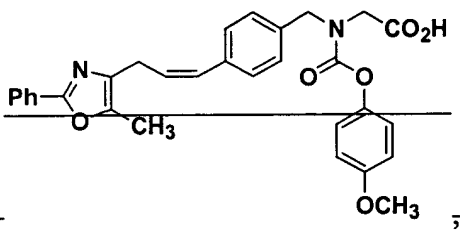
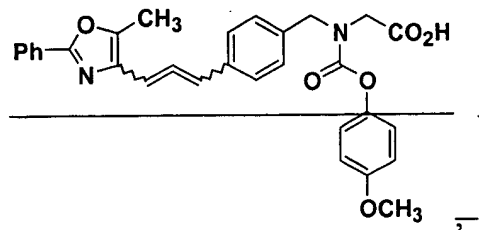
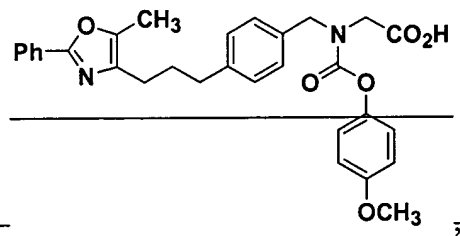
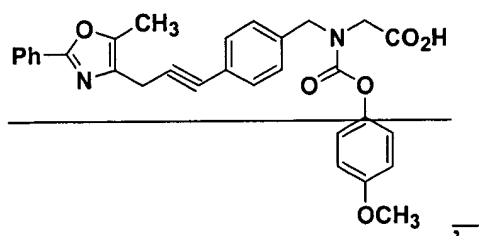
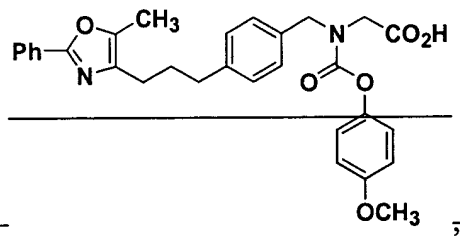
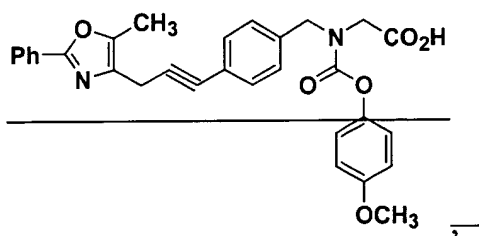
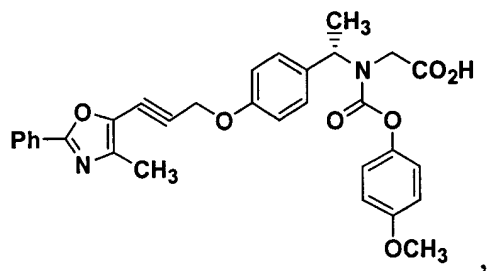
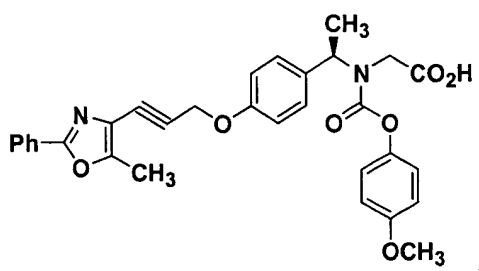
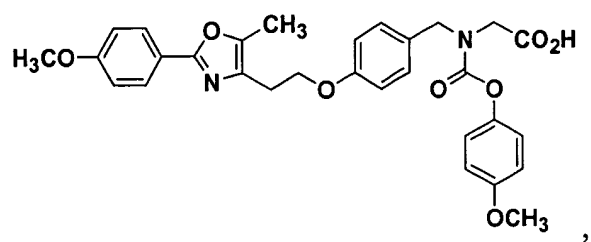
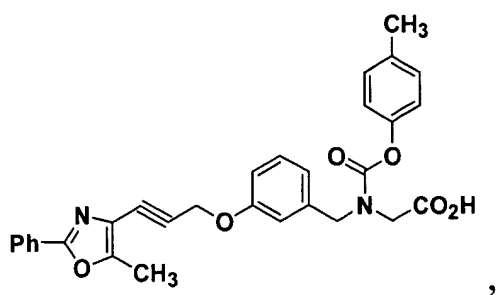




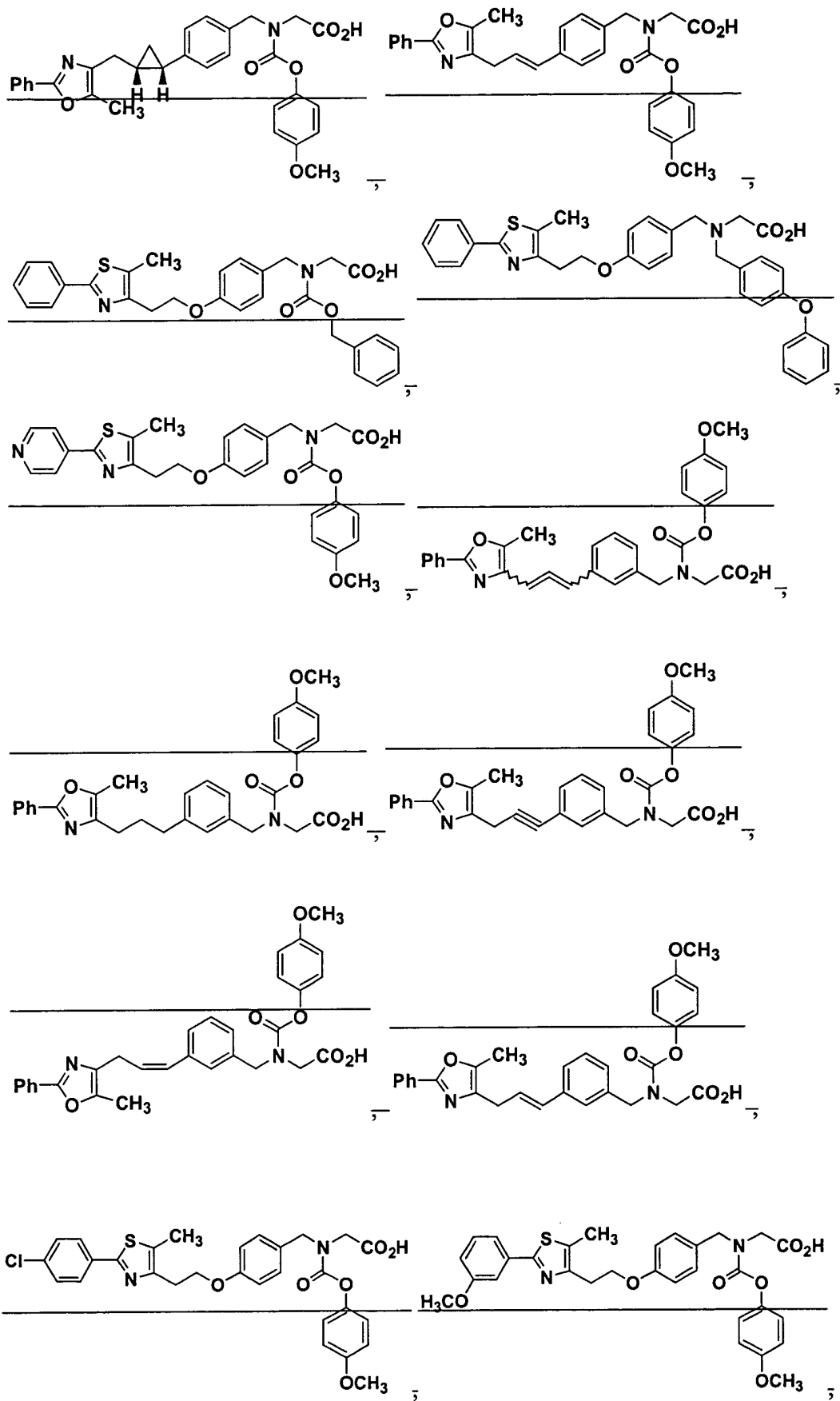


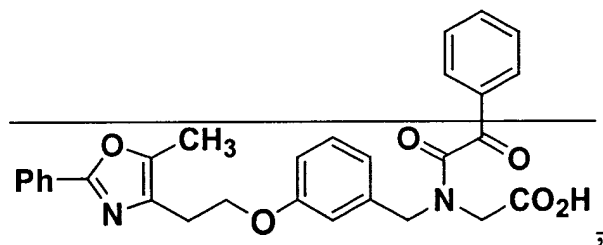
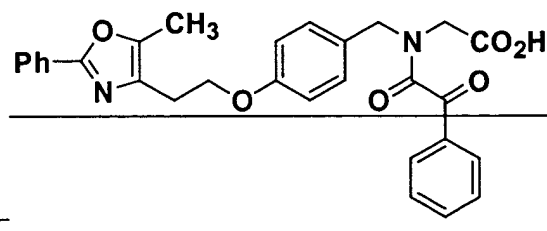
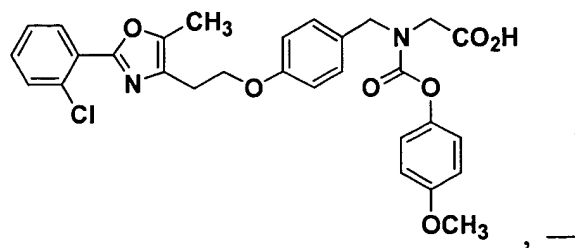
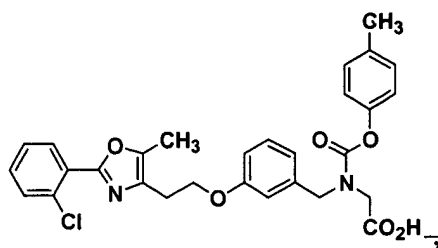
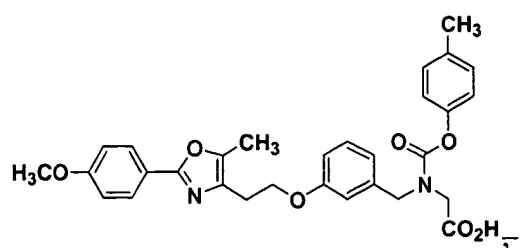






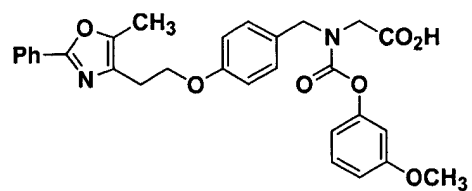
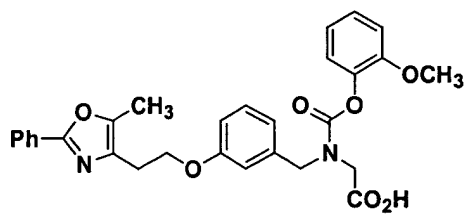
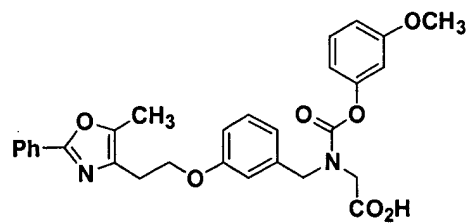
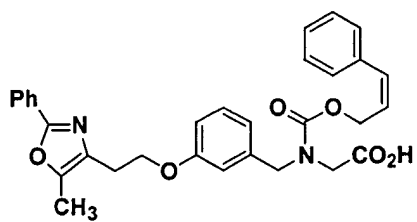
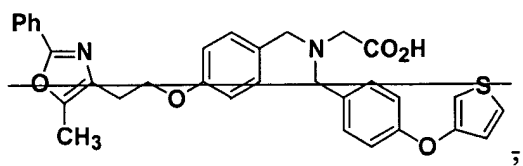
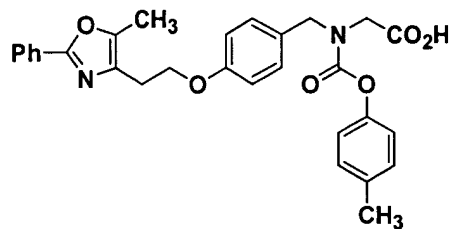
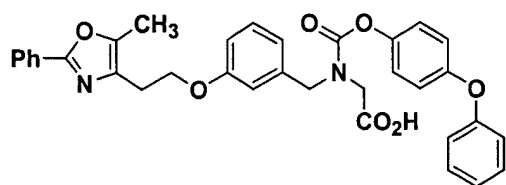
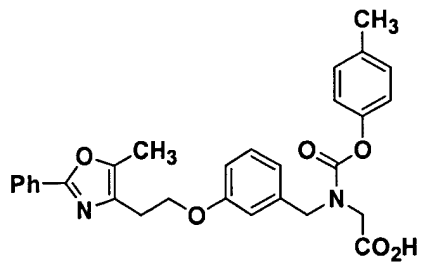
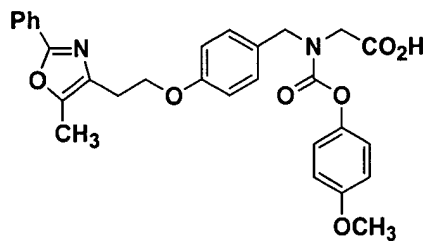
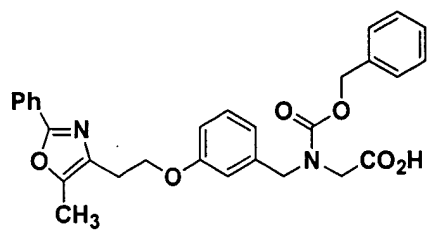
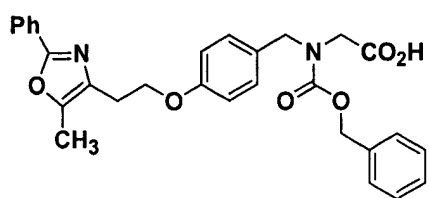


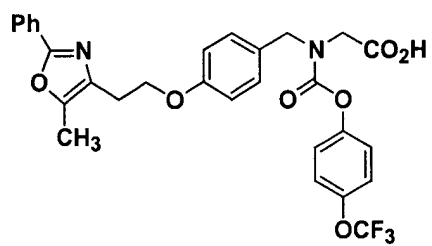
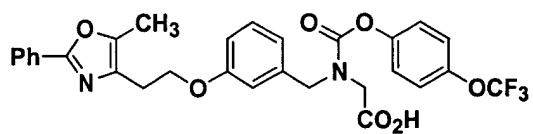
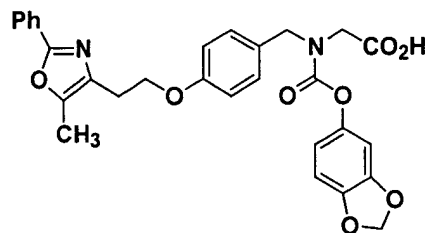
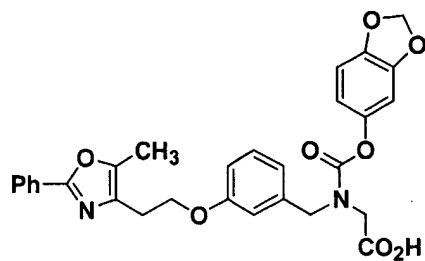
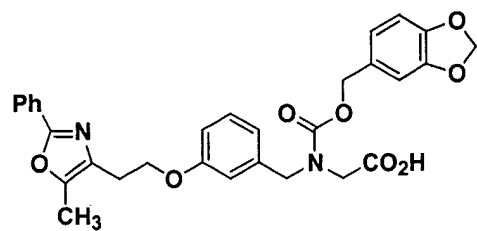
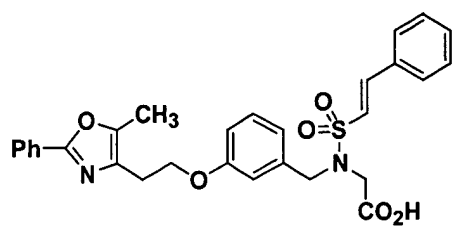
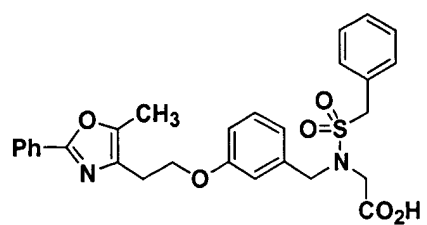


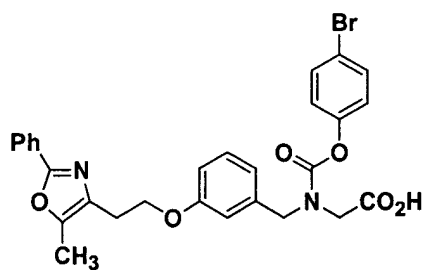
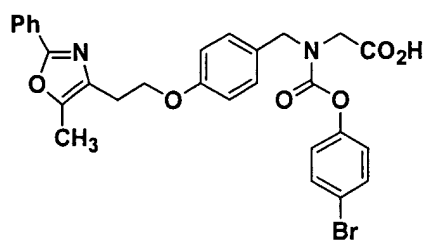
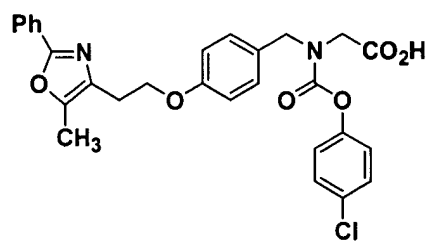
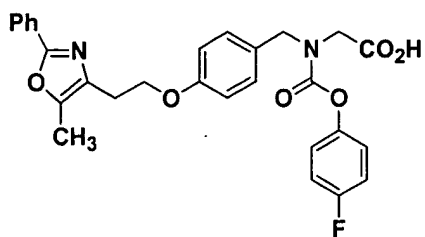
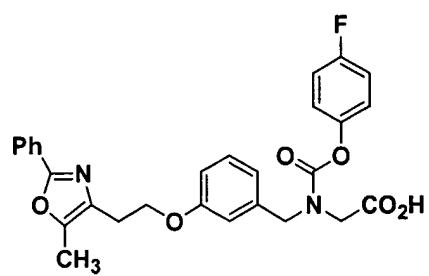
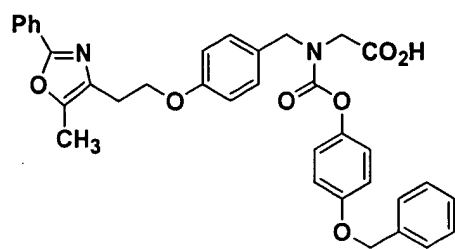


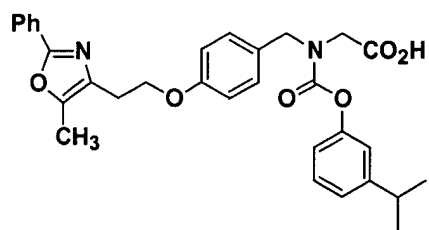
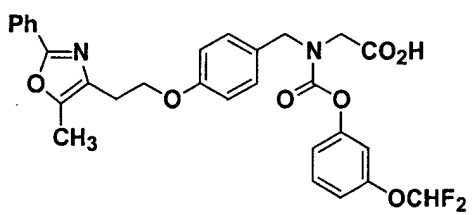
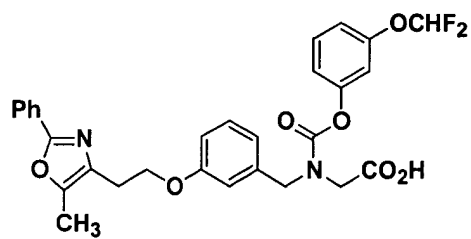
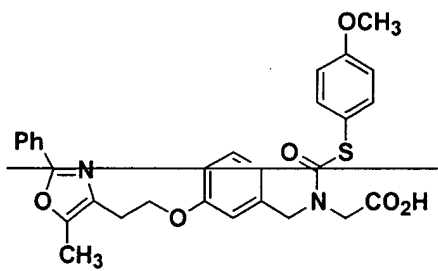
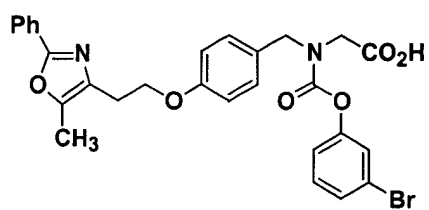
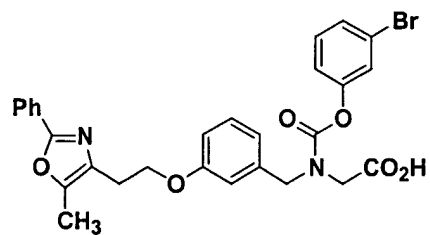
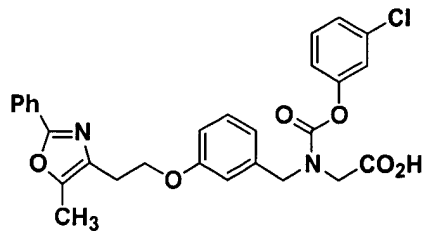
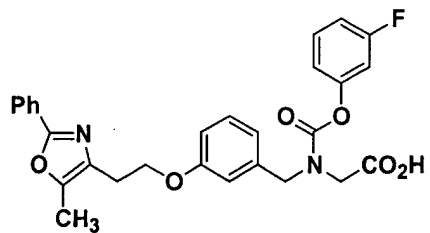
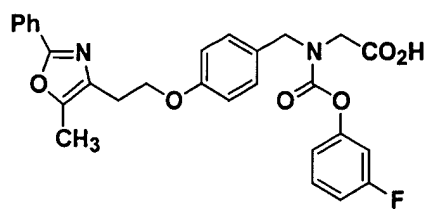
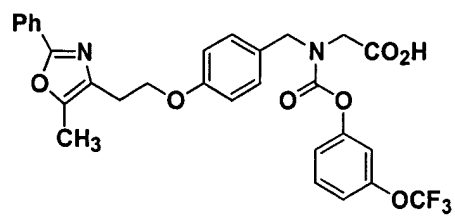
**Claim 17 (currently amended)**

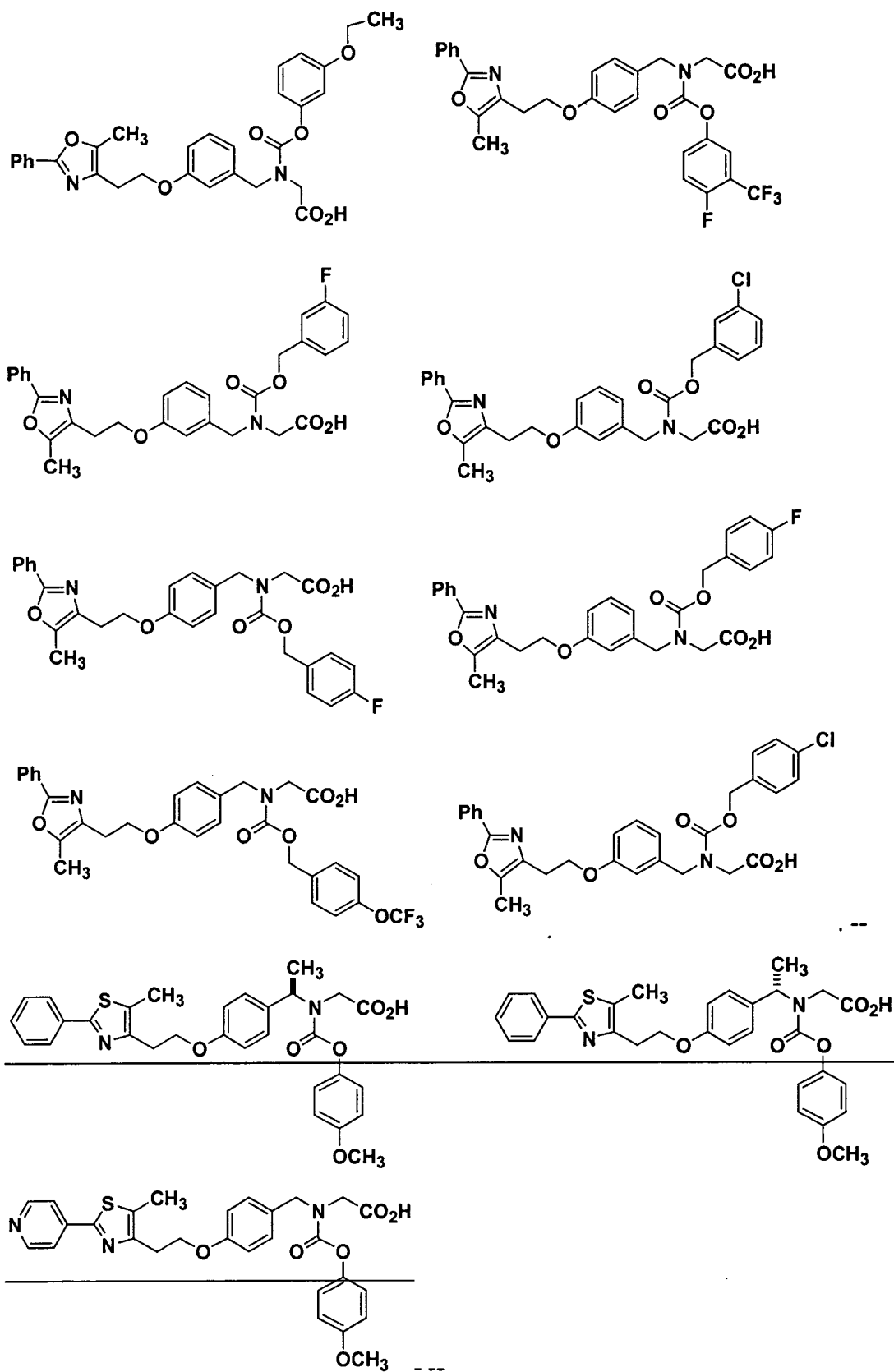
--17. (Amended) The method as defined in Claim 34 wherein the compound employed has the structure







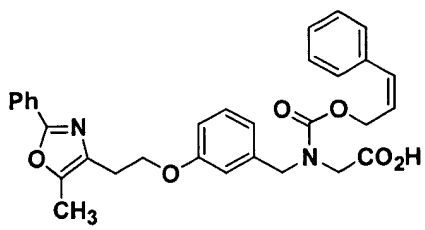
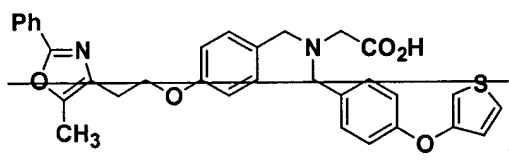
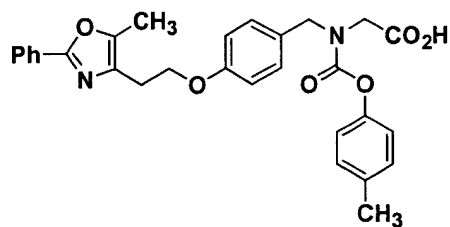
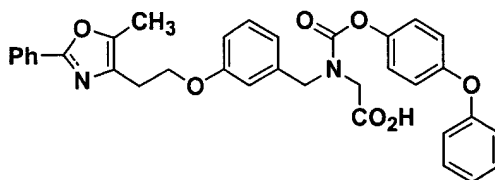
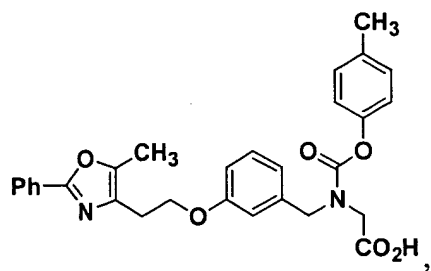
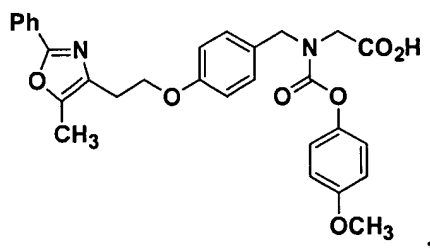
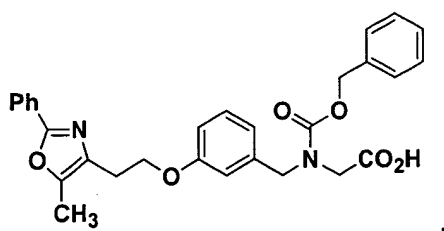
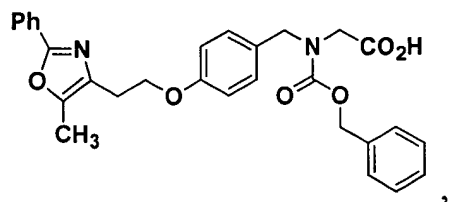




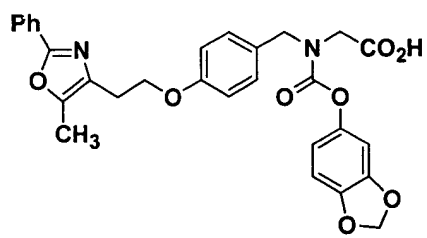
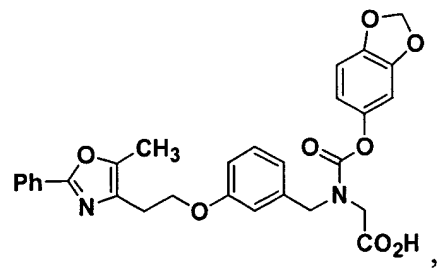
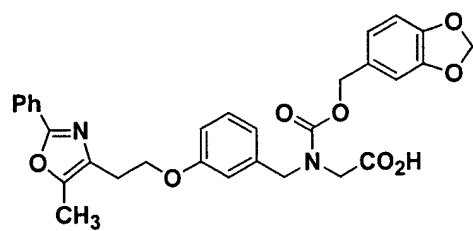
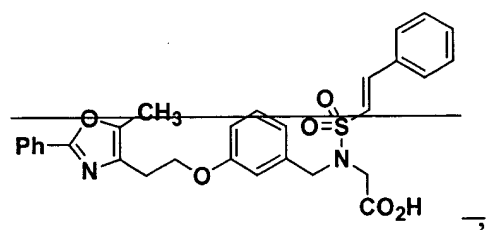
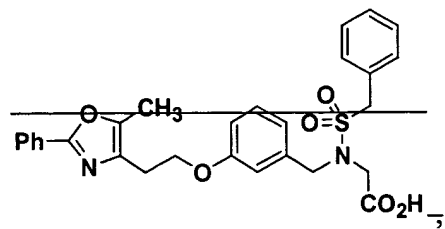
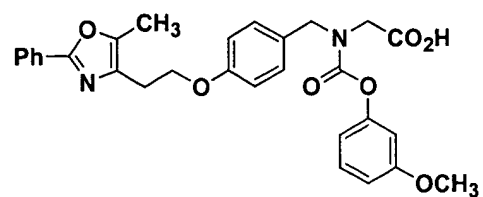
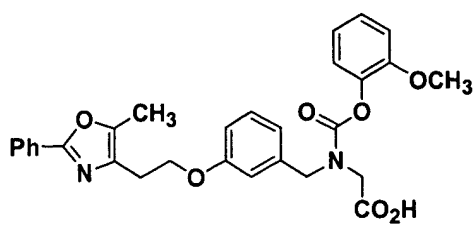
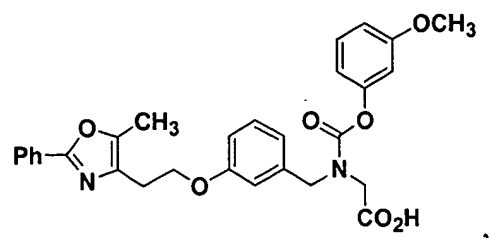
Claims 18 and 19 (cancelled)

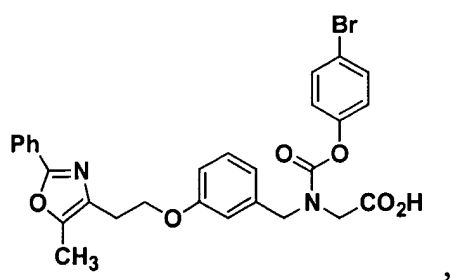
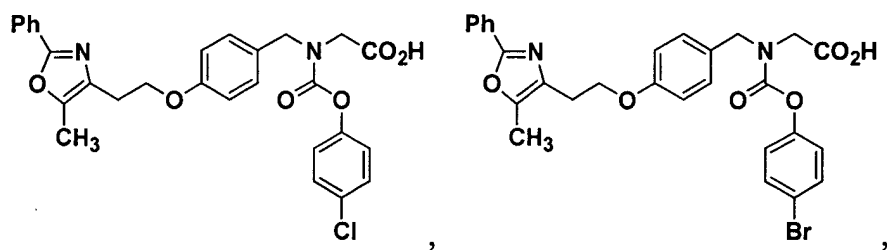
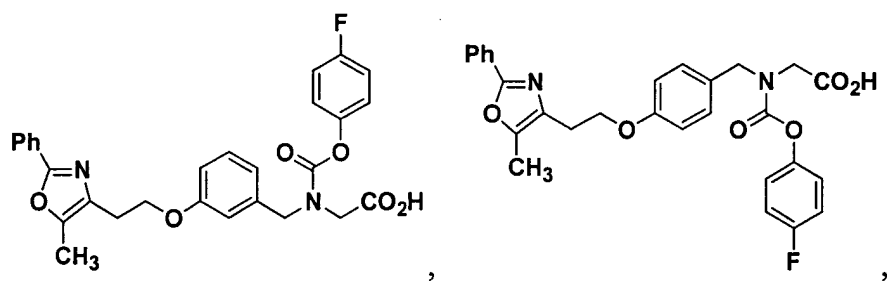
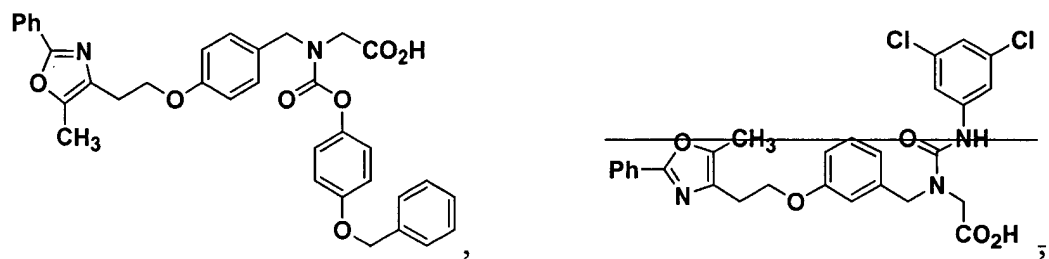
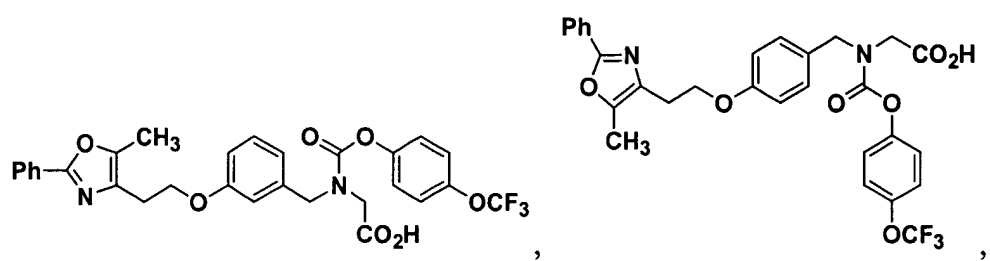
**Claim 20 (currently amended)**

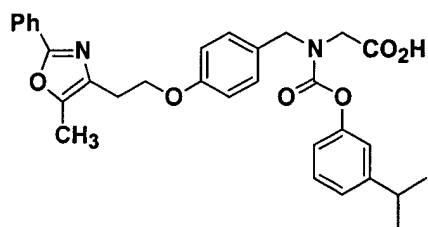
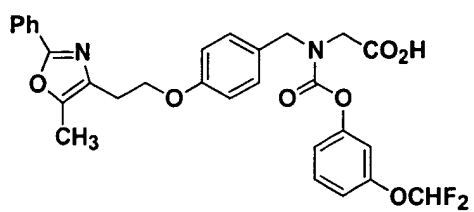
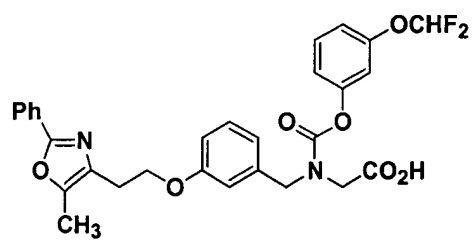
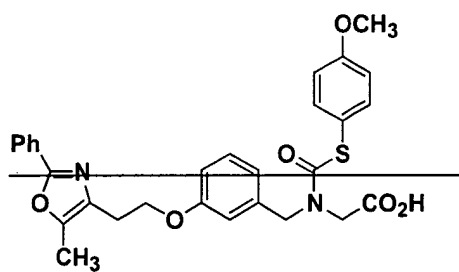
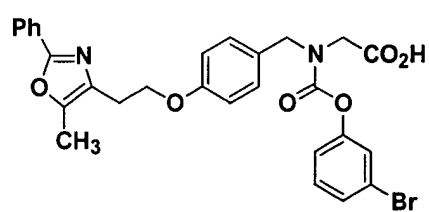
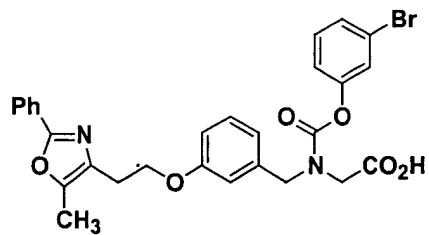
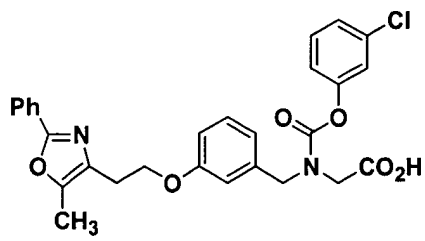
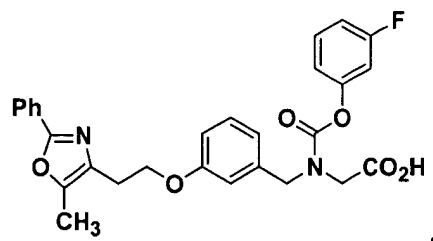
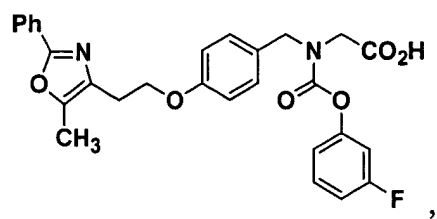
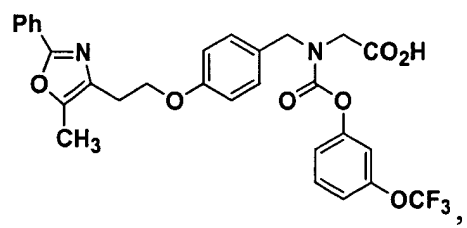
--20. The method as defined in Claim 34 wherein the compound employed has the structure

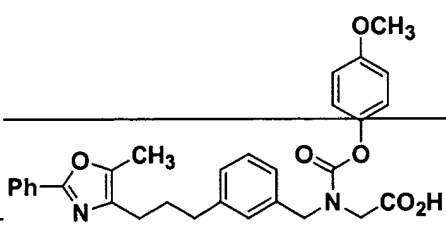
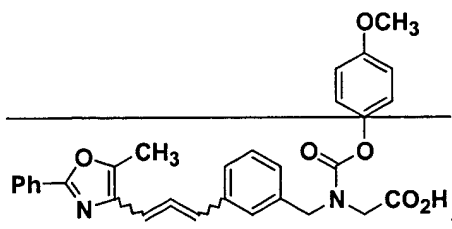
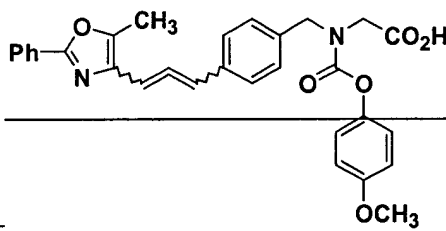
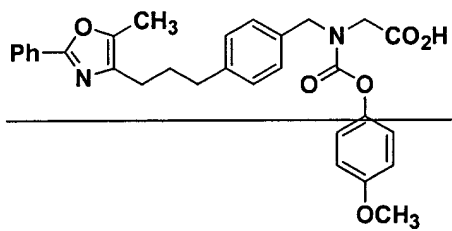
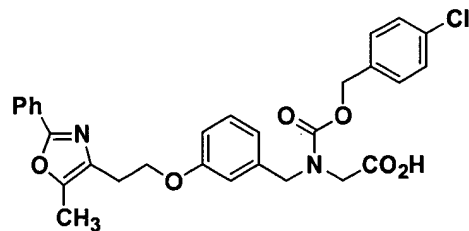
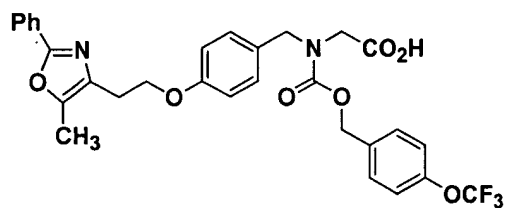
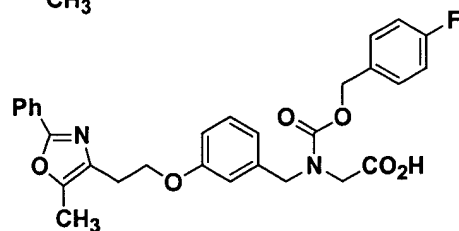
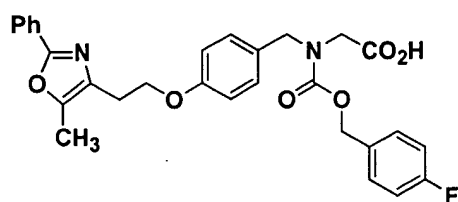
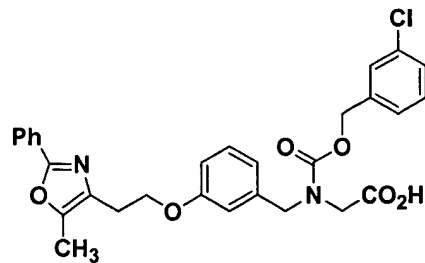
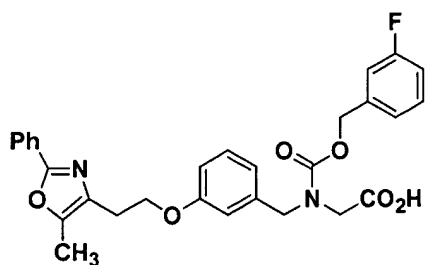
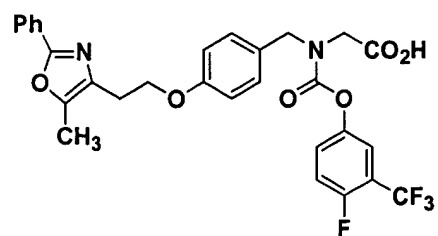
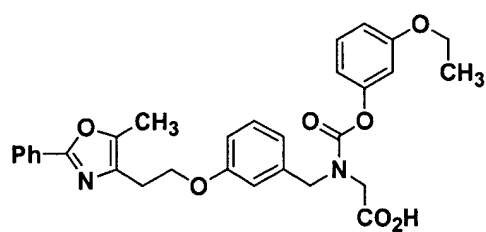


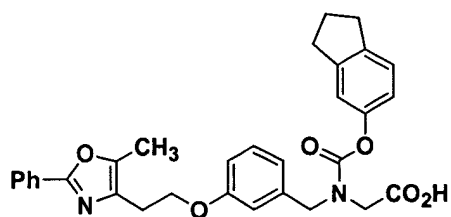
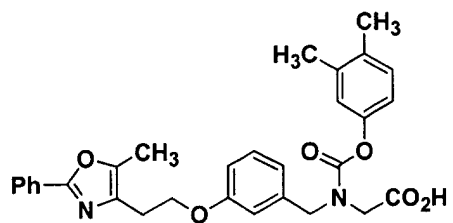
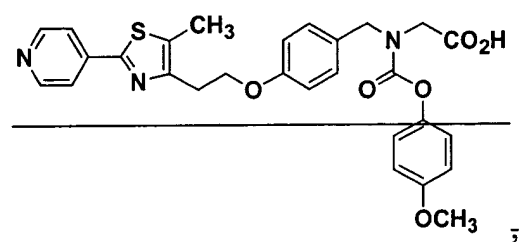
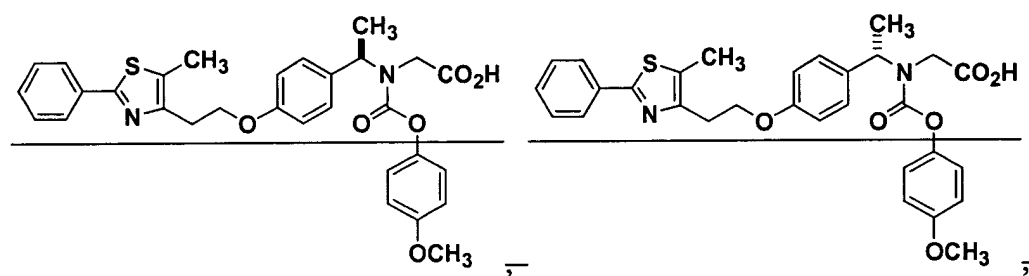
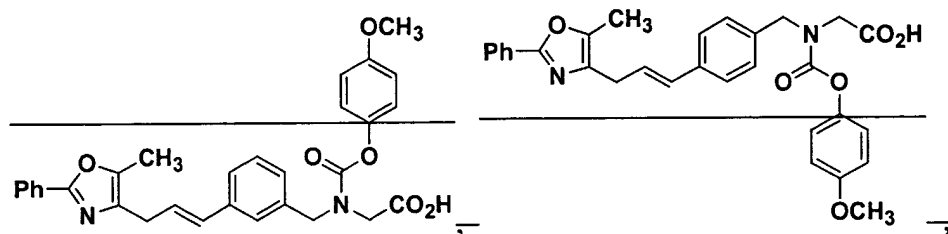
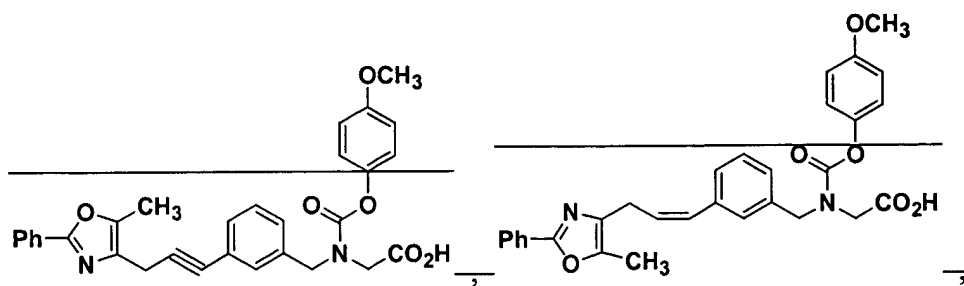


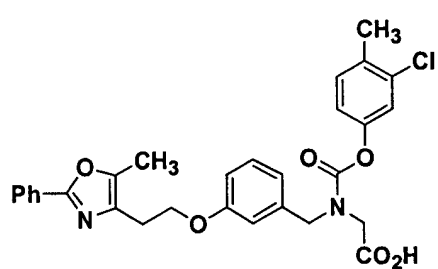
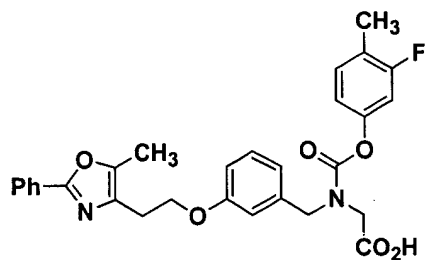
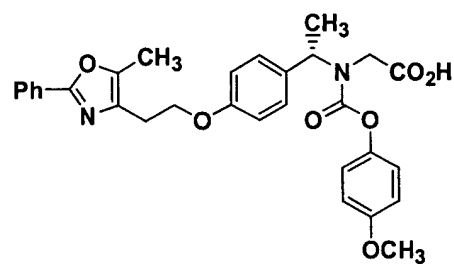
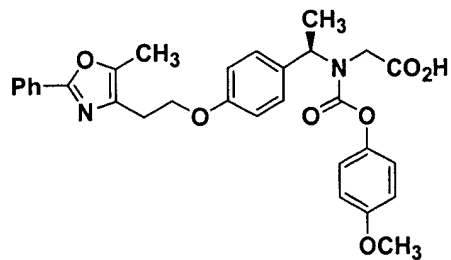
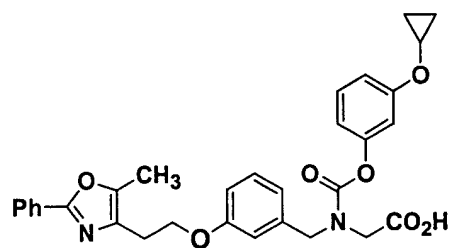
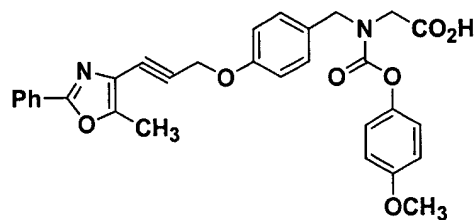
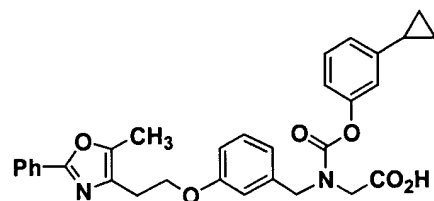
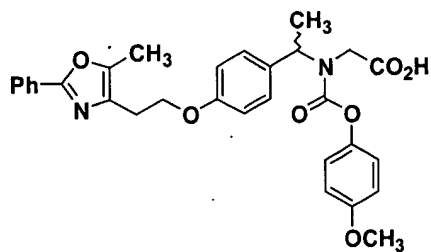
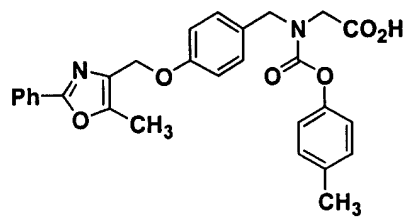
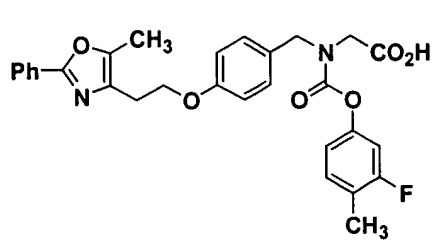


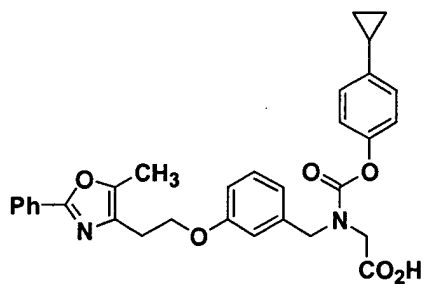
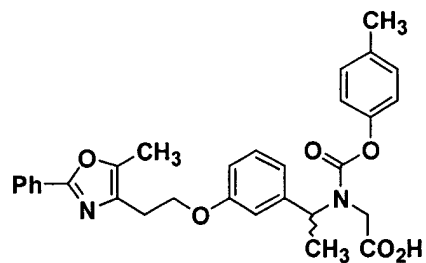
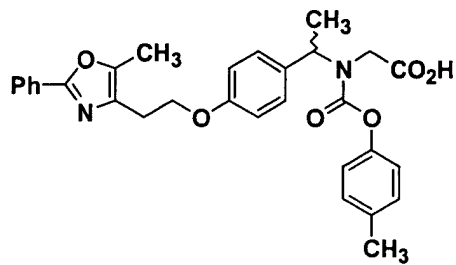
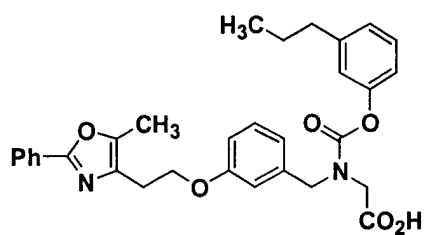
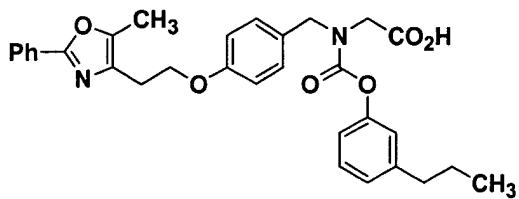
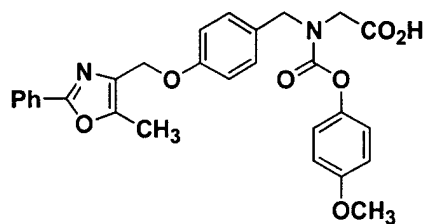
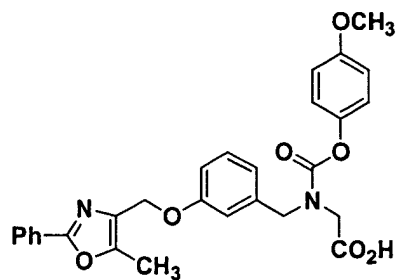
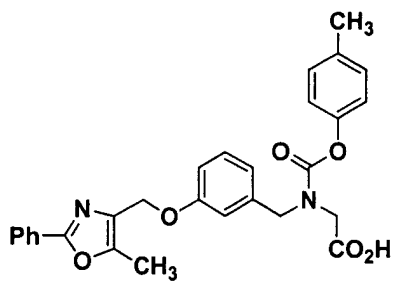
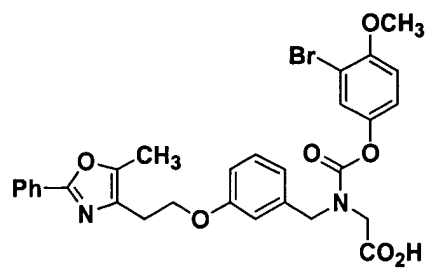
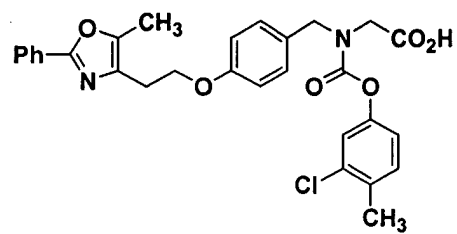


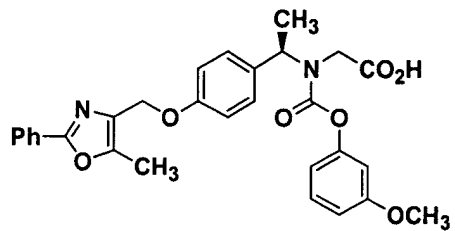
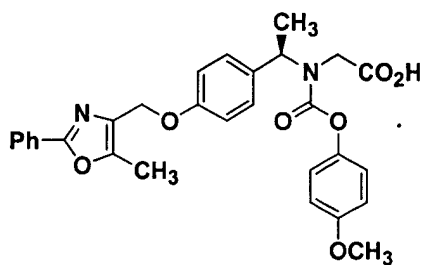
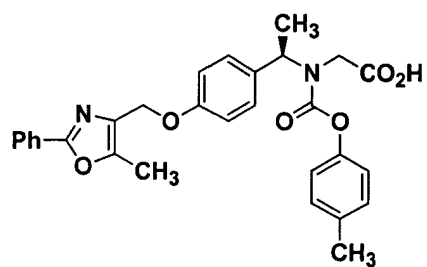
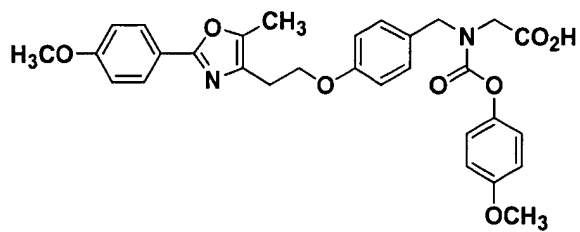
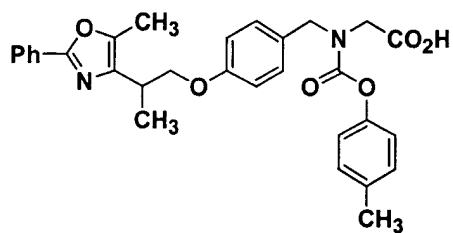
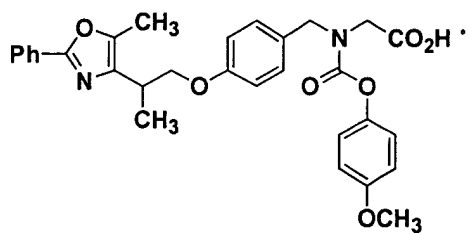
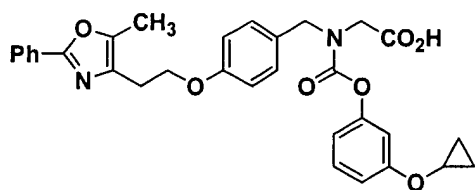
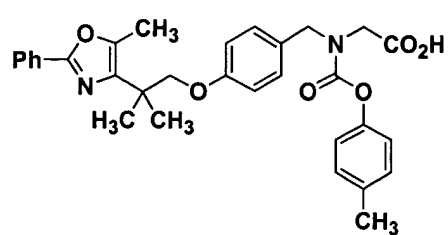
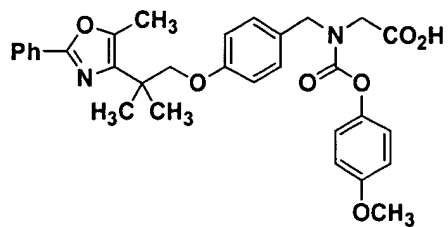
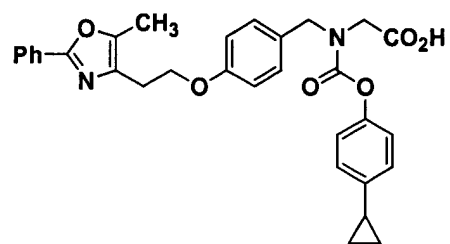
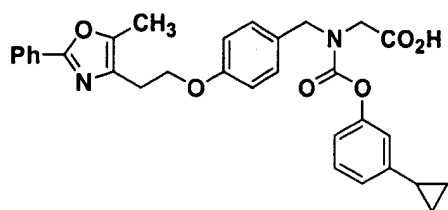




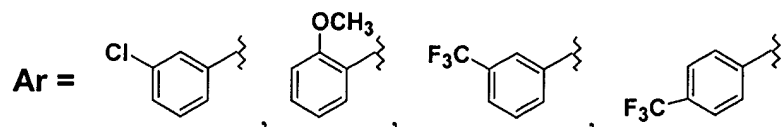
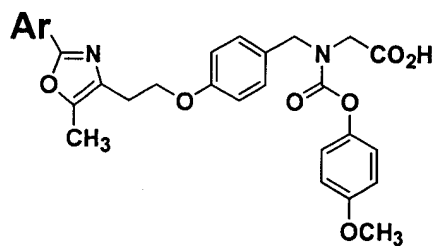
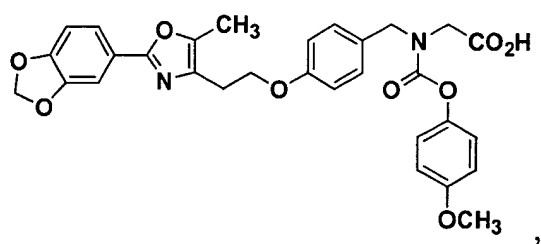
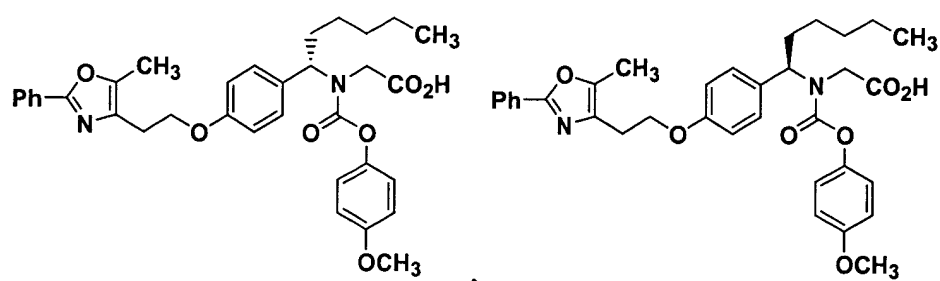
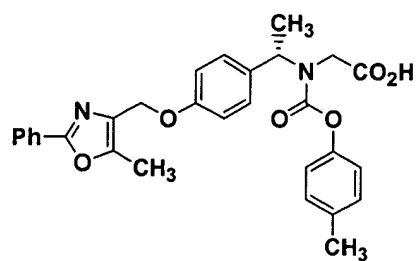
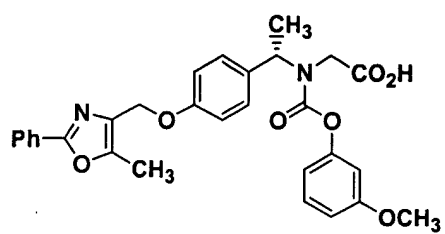
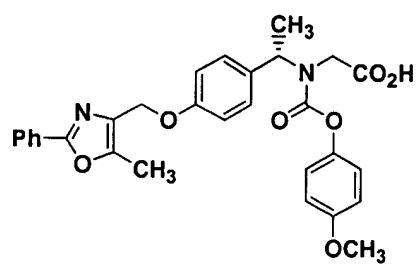


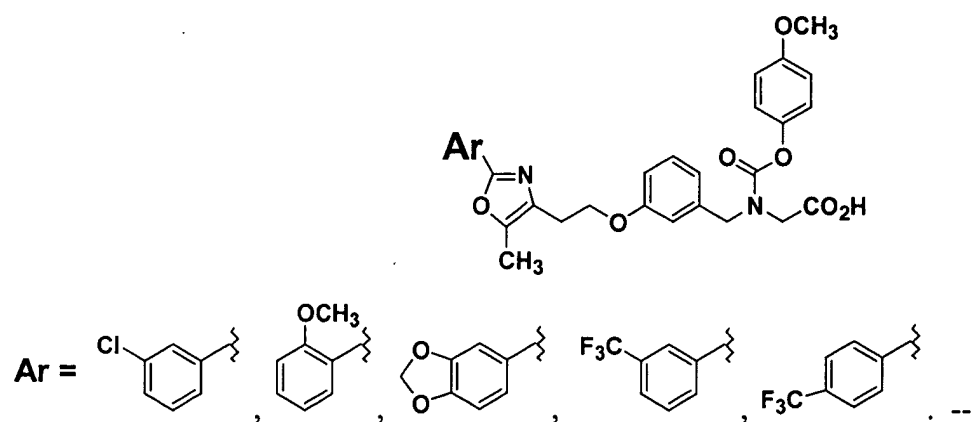






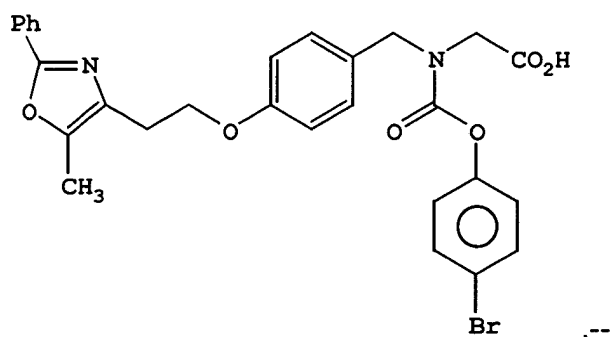






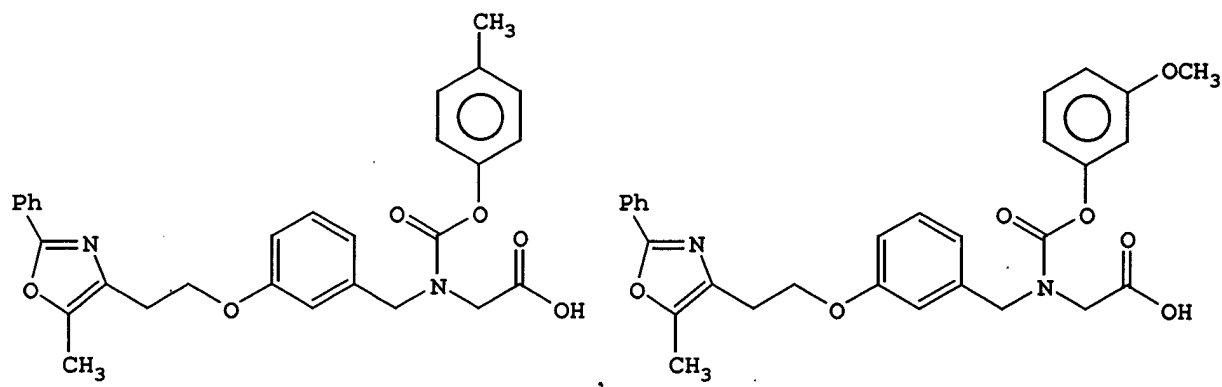
**Claim 21 (previously amended)**

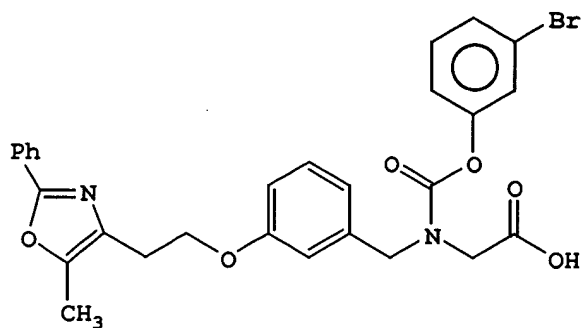
--21. The method as defined in Claim 55 wherein the compound employed has the structure



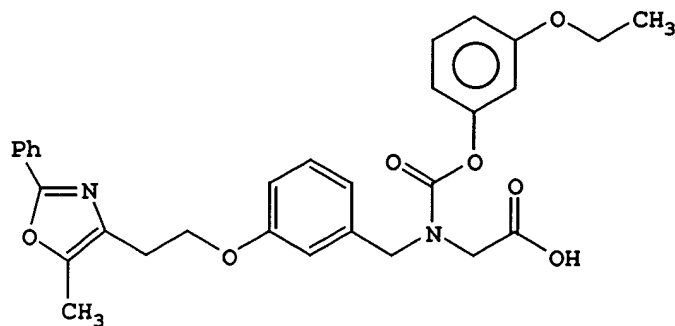
**Claim 22 (previously amended)**

--22. The method as defined in Claim 55 wherein the compound employed has the structure





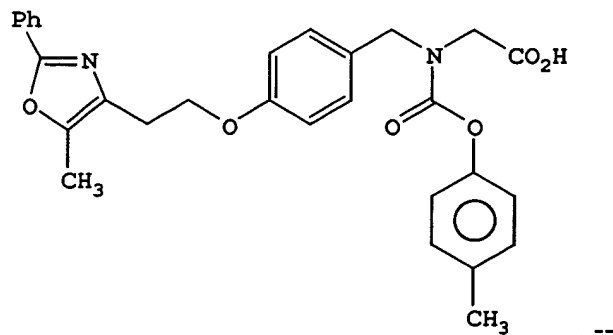
or



**Claims 23 to 25 (cancelled)**

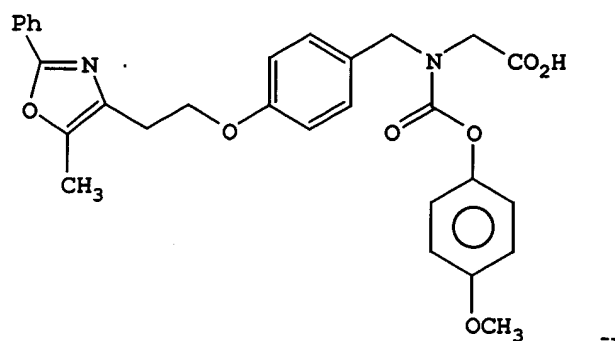
**Claim 26 (previously amended)**

--26. The method as defined in Claim 55 wherein the compound employed has the structure



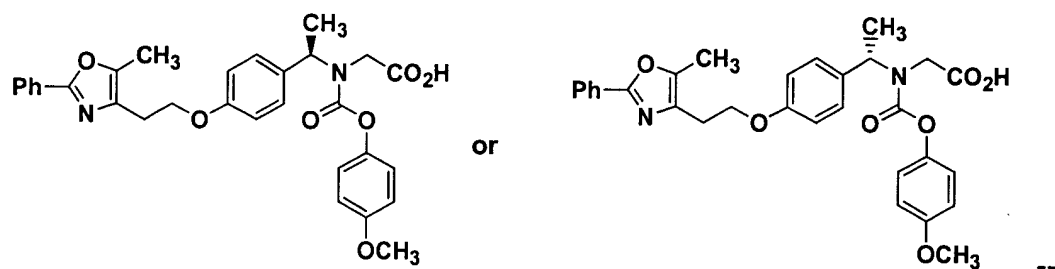
**Claim 27 (previously amended)**

--27. The method as defined in Claim 55 wherein the compound employed has the structure



**Claim 28 (previously amended)**

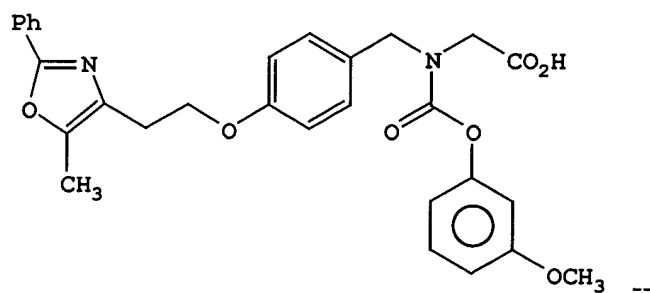
--28. The method as defined in Claim 55 wherein the compound employed has the structure



**Claim 29 (cancelled)**

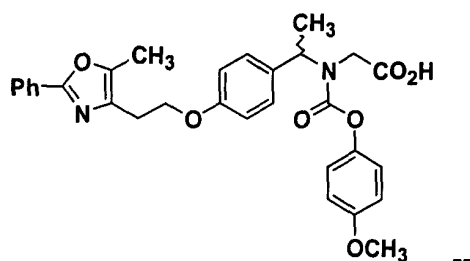
**Claim 30 (previously amended)**

--30. The method as defined in Claim 55 wherein the compound employed has the structure



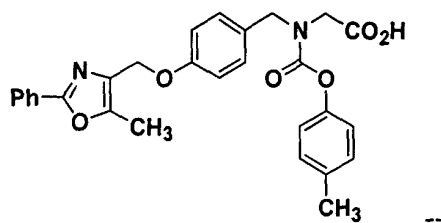
**Claim 31 (previously amended)**

--31. The method as defined in Claim 55 wherein the compound employed has the structure



**Claim 32 (previously amended)**

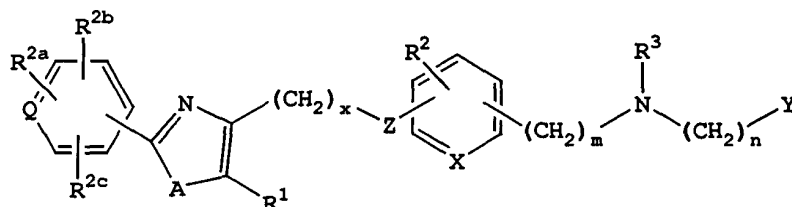
--32. The method as defined in Claim 55 wherein the compound employed has the structure



**Claim 33 (cancelled)**

**Claim 34 (currently amended)**

--34. A method for lowering blood glucose levels or for treating diabetes, or for treating an early malignant disease, a malignant disease, a malignant disease, or a dysplastic disease, which comprises administering to a patient in need of treatment a therapeutically effective amount of a compound which has the structure



wherein x is 1,2, 3 or 4; m is 1 or 2; n is 1 or 2;

Q is C or N;

A is O or S;

Z is O or a bond;

R<sup>1</sup> is H or lower alkyl;

X is CH;

R<sup>2</sup> is H, or alkyl, ~~alkoxy, halogen, amino or substituted amino;~~

$R^{2a}$ ,  $R^{2b}$  and  $R^{2c}$  are the same or different and are selected from H, or alkyl, ~~alkoxy, halogen, amino or substituted amino;~~

$R^3$  is aryloxy carbonyl, alkyloxy carbonyl, alkynyloxy carbonyl, alkenyloxy carbonyl, alkyl(halo)aryloxy carbonyl, alkyl(oxy(halo)aryloxy carbonyl, cycloalkylaryloxy carbonyl, cycloalkyloxyaryloxy carbonyl, alkylcarbonylamino, arylcarbonylamino, heteroarylcarbonylamino, alkoxy carbonylamino, aryloxy carbonylamino, heteroaryloxy carbonylamino, alkylsulfonyl, alkenylsulfonyl, heteroaryloxy carbonyl, cycloheteroalkyloxy carbonyl, heteroarylalkenyl, hydroxyalkyl, ~~alkoxy,~~ alkoxyaryloxy carbonyl, arylalkyloxy carbonyl, alkylaryloxy carbonyl, alkynyloxy carbonyl, haloalkoxyaryloxy carbonyl, alkoxy carbonylaryloxy carbonyl, aryloxyaryloxy carbonyl, arylalkenyloxy carbonyl, heteroaryloxyarylalkyl, aryloxyarylalkyloxy carbonyl, aryloxyalkyloxy carbonyl, arylalkylsulfonyl, arylthiocarbonyl, arylalkenylsulfonyl, heteroarylsulfonyl, arylsulfonyl, heteroarylalkoxy carbonyl, heteroarylalkyloxyarylalkyl, arylalkenylarylalkyl, arylalkoxy carbonyl heteroarylalkyl, heteroaryloxyarylalkyl, arylalkenyl heteroarylalkyl or polyhaloalkylaryloxy carbonyl;

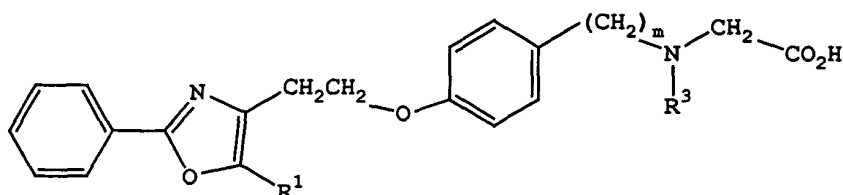
Y is  $CO_2R^4$  where  $R^4$  is H or alkyl, or a prodrug ester or Y is a C-linked 1-tetrazole, a phosphinic acid of the structure  $P(O)(OR^{4a})R^5$  where  $R^{4a}$  is H or a prodrug ester,  $R^5$  is alkyl or aryl or a phosphonic acid of the structure  $P(O)(OR^{4a})_2$  where  $R^{4a}$  is H or a prodrug ester;

or stereoisomers thereof, a prodrug esters ester thereof, and a pharmaceutically acceptable salts salt thereof. –

**Claims 35 to 54 (cancelled)**

**Claim 55 (previously added)**

55. A method for lowering blood glucose levels or for treating diabetes, which comprises administering to a patient in need of treatment a therapeutically effective amount of a compound which has the structure



where  $R^1$  is alkyl,

(CH<sub>2</sub>)<sub>m</sub> is CH<sub>2</sub> or  $\begin{array}{c} \text{CH}_3 \\ | \\ \text{---CH---} \end{array}$  and R<sup>3</sup> is aryloxy carbonyl or alkoxyaryloxy carbonyl.

**Claim 56 (previously added)**

~~56.~~ The method as defined in Claim 55 where in the compound employed (CH<sub>2</sub>)<sub>m</sub> is CH<sub>2</sub>.

**Claims 57 and 58 (cancelled)**